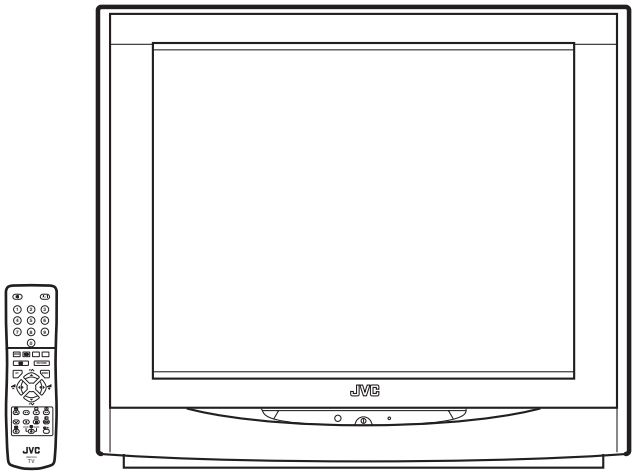
JVC

SERVICE MANUAL

COLOUR TELEVISION

AV-29QH4BU,
AV-29QH4SU



InteriArt

TABLE OF CONTENTS

1 PRECAUTION 1-4
2 SPECIFIC SERVICE INSTRUCTIONS 1-5
3 DISASSEMBLY 1-6
4 ADJUSTMENT 1-10
5 TROUBLESHOOTING 1-20

COPYRIGHT © 2005 Victor Company of Japan, Limited

No.YA086
2005/2

SPECIFICATION

Item		Content
Dimensions (W × H × D)		78.5cm × 61.5cm × 50cm
Mass		41.7kg
TV RF System		B/G, D/K, L/L'
Colour System	TV Mode	PAL / SECAM
	Video Mode	PAL / SECAM / NTSC 3.58 / NTSC 4.43
Sound System		A2 (B/G, D/K), NICAM (B/G, D/K, L/L')
Teletext System		Fastext / TOP / WST
Tuning System		Frequency synthesizer tuning system
Receiving Frequency	VHF(VL) VHF(VH) UHF CATV	46.25MHz - 168.25MHz 175.25MHz - 463.25MHz 471.25MHz - 863.25MHz S01 - S41 & S75 - S79
Intermediate Frequency	VIF SIF	38.9MHz (B/G, D/K, L) / 33.9MHz (L') 33.4MHz (5.5MHz:B/G) / 32.9MHz (6.0MHz:D/K) / 32.4MHz (6.5MHz:L) / 40.4MHz (6.5MHz:L')
Colour Sub Carrier Frequency	PAL SECAM NTSC	4.43MHz 4.40625MHz / 4.43MHz 3.58MHz / 4.43MHz
Power Input		AC220V - AC240V, 50Hz
Power Consumption		130W (Max) / 3W (Standby)
Aerial Input Terminal		75Ω unbalanced, coaxial
Picture Tube Size		Visible size : 68cm (29”), Measured diagonally (H: 54.1cm × V: 40.6cm)
High Voltage		31.2kV (at zero bean current)
Speaker		5.7cm × 12.6cm, Oval type × 2 / 8.0cm Round type (tweeter) × 2
Audio Output		10W + 10W (THD10%)
EXT-1 Input / Output		21-pin Euro connector (SCRAT socket) × 1
EXT-2 Input / Output		21-pin Euro connector (SCRAT socket) × 1
EXT-3 Input	Video Audio (L/R)	1V(p-p) 75Ω, RCA pin jack × 1 500mV(rms) (-4dBs), High Impedance, RCA pin jack × 2
Headphone jack		Stereo mini jack 3.5mm
Remote Control Unit		VE-30021286 (RM-C1512B) (AA/R06 dry battery × 2) [AV-29QH4BU] VE-30021287 (RM-C1512S) (AA/R06 dry battery × 2) [AV-29QH4SU]

Design & specifications are subject to change without notice.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

- It is a remote controlled color television.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has two Euroconnector sockets for external device (such as video recorder, video games, audio set, etc.)
- Front AV Input (EXT-3) available.
- Stereo sound systems (A2 + Nicam) are available.
- Full function Teletext (Fastext, Toptext & WST).
- It is possible to connect headphone.
- Direct channel access.
- APS (Automatic Programming System).
- All programs can be named.
- Forward or backward automatic tuning.
- Sleep timer.
- Child Lock.
- Blue Background
- Comb Filter
- NTSC Playback.
- T-V Link
- Automatic sound muting when no transmission.
- 5 minutes after the broadcasting (close down), the TV switches itself automatically to stand-by mode.
- WSS (Wide Screen Signaling)

2.2 MAIN DIFFERENCE LIST

Items	AV-29QH4BU	AV-29QH4SU
CABINET COLOUR	BLACK	SILVER
REMOTE CONTROL UNIT	VE-30021286 (RM-C1512B)	VE-30021287 (RM-C1512S)

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE REAR COVER

(1) Unplug the power cord.
(2) Remove the 8 screws **[A]**.
(3) Remove the 4 screw **[B]**.
(4) Withdraw the REAR COVER toward you.

3.1.2 REMOVING THE BACK DOOR

- Remove the REAR COVER.
  (1) Remove the 2 screws **[C]**.
  (2) Withdraw the BACK DOOR toward you.

3.1.3 REMOVING FEATURE BOX PWB

- Removing the REAR COVER.
  (1) Disconnect the connector PL409 and PL410 on the MAIN PWB.
  (2) Raise up the both sides and disconnect the FEATURE BOX PWB.

3.1.4 REMOVING THE MAIN PWB

- Removing the REAR COVER.
  (1) Remove the 4 screws **[D]**.
  (2) Slightly raise the both sides of the MAIN PWB by hand and withdraw MAIN PWB backward.
  (If necessary, take off the wire clamp, connectors etc.)
  (Be careful enough when developing a MAIN PWB.)

3.1.5 REMOVING THE SIDE CONTROL PWB

- Removing the REAR COVER.
- Removing the CHASSIS.
  (1) Remove the 2 screws **[E]**, and remove the SIDE CONTROL PWB.

3.1.6 REMOVING THE AV & HEADPHONE PWB

- Removing the REAR COVER.
- Removing the CHASSIS.
  (1) Remove the 3 screws **[F]**, and remove the AV & HEADPHONE PWB.

3.1.7 REMOVING THE POWER SWITCH PWB

- Removing the REAR COVER.
- Removing the CHASSIS.
  (1) Remove the 2 screws **[G]**, and remove the POWER SWITCH.

3.1.8 REMOVING THE LED PWB

- Removing the REAR COVER.
- Removing the CHASSIS.
- Removing the POWER SWITCH PWB
  (1) Remove the 2 screws **[H]**, and remove the LED PWB.

3.1.9 REMOVING THE WOOFER & TWEETER

- Removing the REAR COVER.
  (1) Remove the 4 screws **[I]**, and remove the WOOFER.
  (2) Remove the 2 screws **[J]**, and remove the TWEETER.
  (3) Remove an opposite side similarly.

3.1.10 CHECKING THE PW BOARD

To check the back side of the PW Board.
1) Pull out the PW Board. (Refer to REMOVING THE MAIN PWB).
2) Erect the PW Board vertically so that you can easily check the back side of the PWB.

[CAUTION]

- When erecting the PW Board, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PWB.

3.1.11 WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

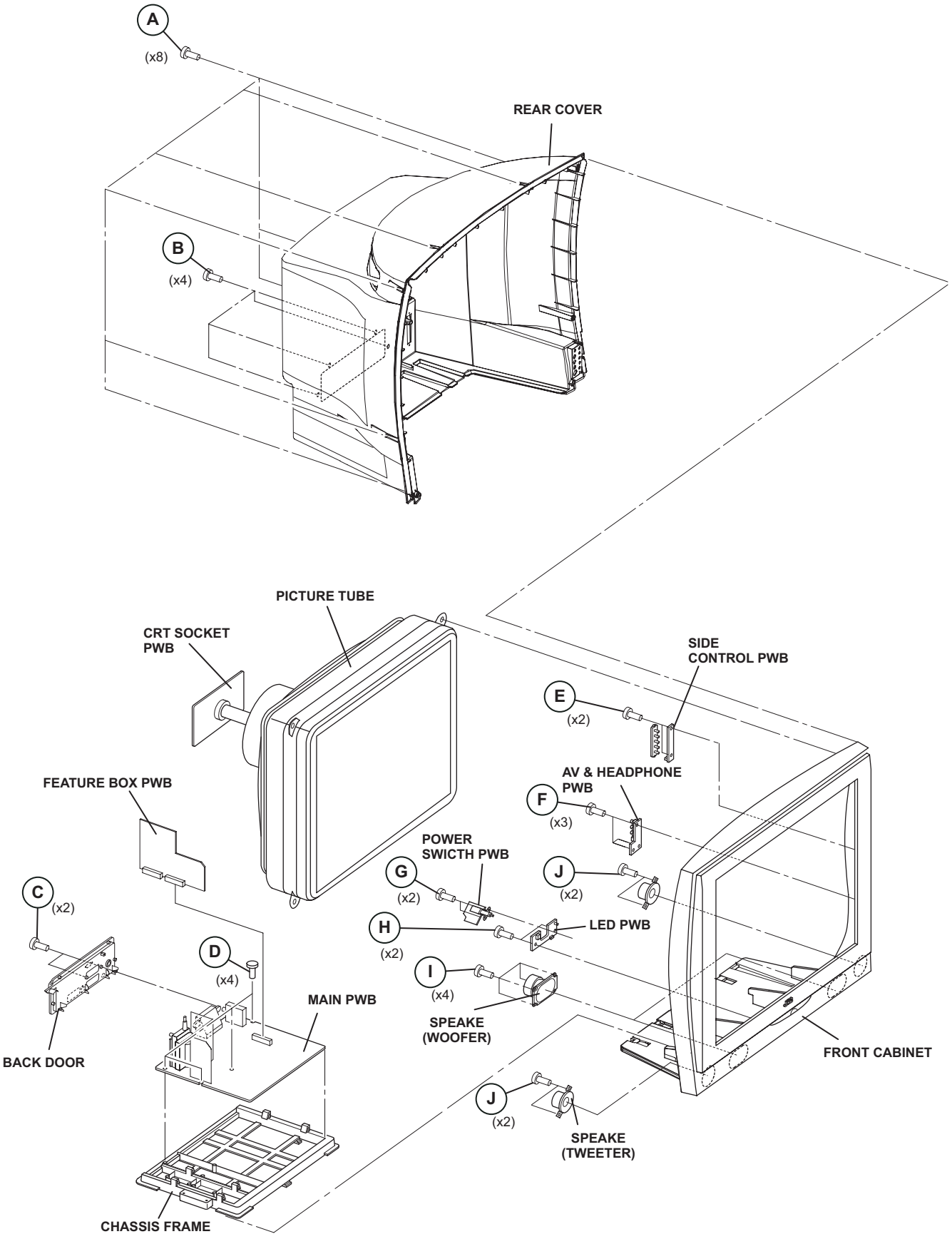

A
(x8)
REAR COVER
B
(x4)
PICTURE TUBE
CRT SOCKET PWB
SIDE CONTROL PWB
E
(x2)
FEATURE BOX PWB
AV & HEADPHONE PWB
F
(x3)
POWER SWICTH PWB
G
(x2)
J
(x2)
C
(x2)
H
(x2)
LED PWB
D
(x4)
I
(x4)
MAIN PWB
SPEAKE (WOOFER)
BACK DOOR
FRONT CABINET
J
(x2)
SPEAKE (TWEETER)
CHASSIS FRAME

Fig.1

3.2 SETTING OF THE LAST MEMORY FOR SHIPMENT

3.2.1 USER SETTING VALUES

<table>
<tr><th>Setting item</th><th>Setting value</th><th>Setting item</th><th>Setting value</th></tr>
<tr><td colspan="2">PICTURE MENU</td><td colspan="2">INSTALL</td></tr>
<tr><td>BRIGHTNESS</td><td rowspan="8">These adjust are automatically restored when APS bit in Service menu is set.
The procedure for setting APS bit is described bellow.</td><td>LANGUAGE</td><td>ENGLISH</td></tr>
<tr><td>CONTRAST</td><td>COUNTRY</td><td>Other</td></tr>
<tr><td>COLOUR</td><td>EXT-2 OUTPUT</td><td>TV</td></tr>
<tr><td>SHARPNESS</td><td colspan="2" rowspan="5"></td></tr>
<tr><td>COLOUR TEMP</td></tr>
<tr><td>ZOOM</td></tr>
<tr><td>HUE (only NTSC)</td></tr>
<tr><td colspan="2">SOUND MENU</td><td colspan="2">FEATURE MENU</td></tr>
<tr><td>BALANCE</td><td>Center</td><td>SLEEP TIMER</td><td>OFF</td></tr>
<tr><td>BASS</td><td>Center</td><td>CHILD LOCK</td><td>OFF</td></tr>
<tr><td>TREBLE</td><td>Center</td><td colspan="2" rowspan="2"></td></tr>
<tr><td>HYPER SOUND</td><td>OFF</td></tr>
</table>

3.2.2 SETTING APS BIT IN SERVICE MENU

(1) Press **[INFORMATION]** and **[MUTING]** keys to enter the service menu.
(2) Press **[GREEN]** key to select the VIDEO.
(3) Press FUNCTION [▲]/[▼] keys to select the APS items.
(4) Press FUNCTION [◀]/[▶] keys to change the value to "**ON**".
(5) Press **[INFORMATION]** key to store the change value.
(6) Press **[MENU]** key to exit the service mode.

SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as given below.
(2) Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
(3) Make sure that AC power is turned on correctly.
(4) Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
(5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
(6) Never touch any adjustment parts which are not specified in the list for this adjustment - variable resistors, transformers, condensers, etc.
(7) Presetting before adjustment.
Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

Setting item	Setting value
BRIGHTNESS	Center
CONTRAST	
COLOUR	
SHARPNESS	
COLOUR TEMP	NORMAL
ZOOM	AUTO

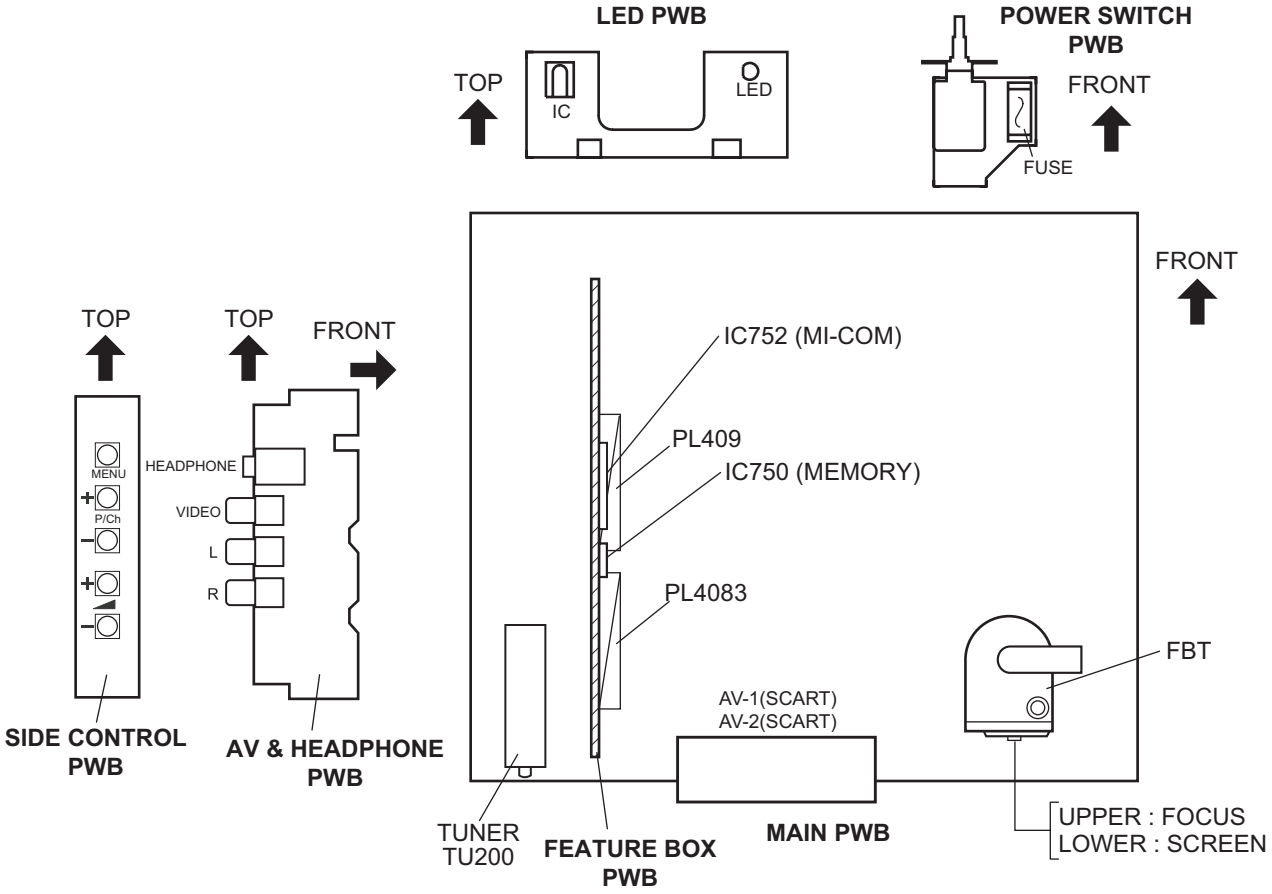
4.2 MEASURING EQUIPMENT

(1) DC voltmeter (or digital voltmeter)
(2) Signal generator (Pattern generator)
: [PAL / SECAM / NTSC]
(3) Remote control unit

4.3 ADJUSTMENT ITEM

- FOCUS ADJUSTMENT
- SCREEN ADJUSTMENT
- AGC ADJUSTMENT
- DEFLECTION CIRCUIT ADJUSTMENT
- VIDEO CIRCUIT ADJUSTMENT

4.4 ADJUSTMENT LOCATIONS



4.5 BASIC OPERATION OF SERVICE MODE

4.5.1 HOW TO ENTER THE SERVICE MODE

(1) Press the **INFORMATION** key and **MUTING** key simultaneously, and the SERVICE MENU 1 screen (Fig.1) will be displayed.

SERVICE MENU 1

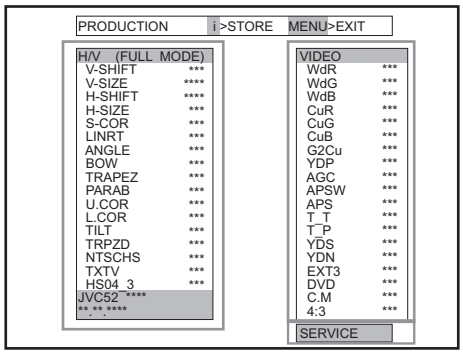


Fig.1

(2) While the SERVICE MENU 1 screen is displayed, press the **BLUE** key for access to the SERVICE MENU 2 (Fig.2).

SERVICE MENU 2

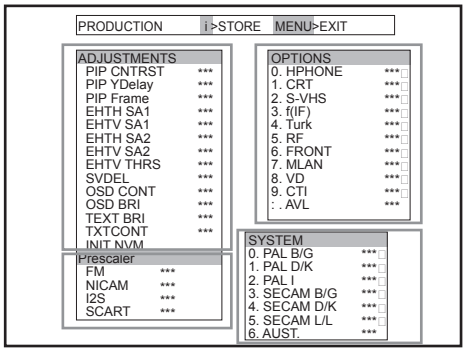


Fig.2

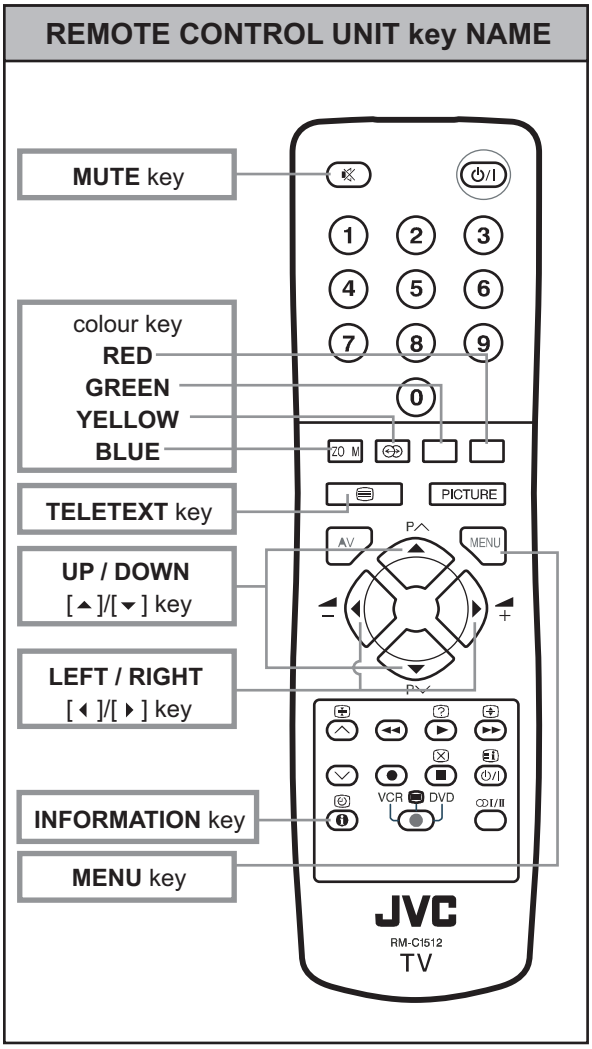
4.5.2 SELECTION OF ADJUSTMENT ITEMS

(1) Enter the SERVICE MODE
(2) Press the **COLOUR** (**RED**, **GREEN**, **YELLOW** or **BLUE**) key and select the SERVICE MENU 1 section. (refer to next page.)
(3) Press the FUNCTION [▲]/[▼] key to select the adjustment item.
(4) Press the FUNCTION [◀]/[▶] key to set the setting value.
(5) Press the **[INFORMATION]** key to store the setting value.

4.5.3 HOW TO EXIT SERVICE MODE

(1) Press the [**MENU**] key.

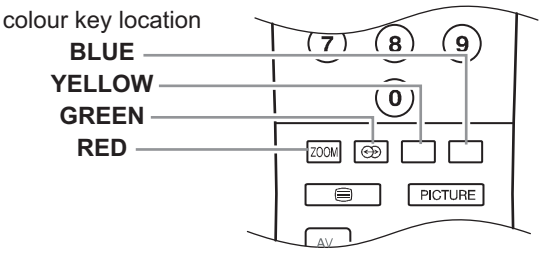
REMOTE CONTROL UNIT key NAME

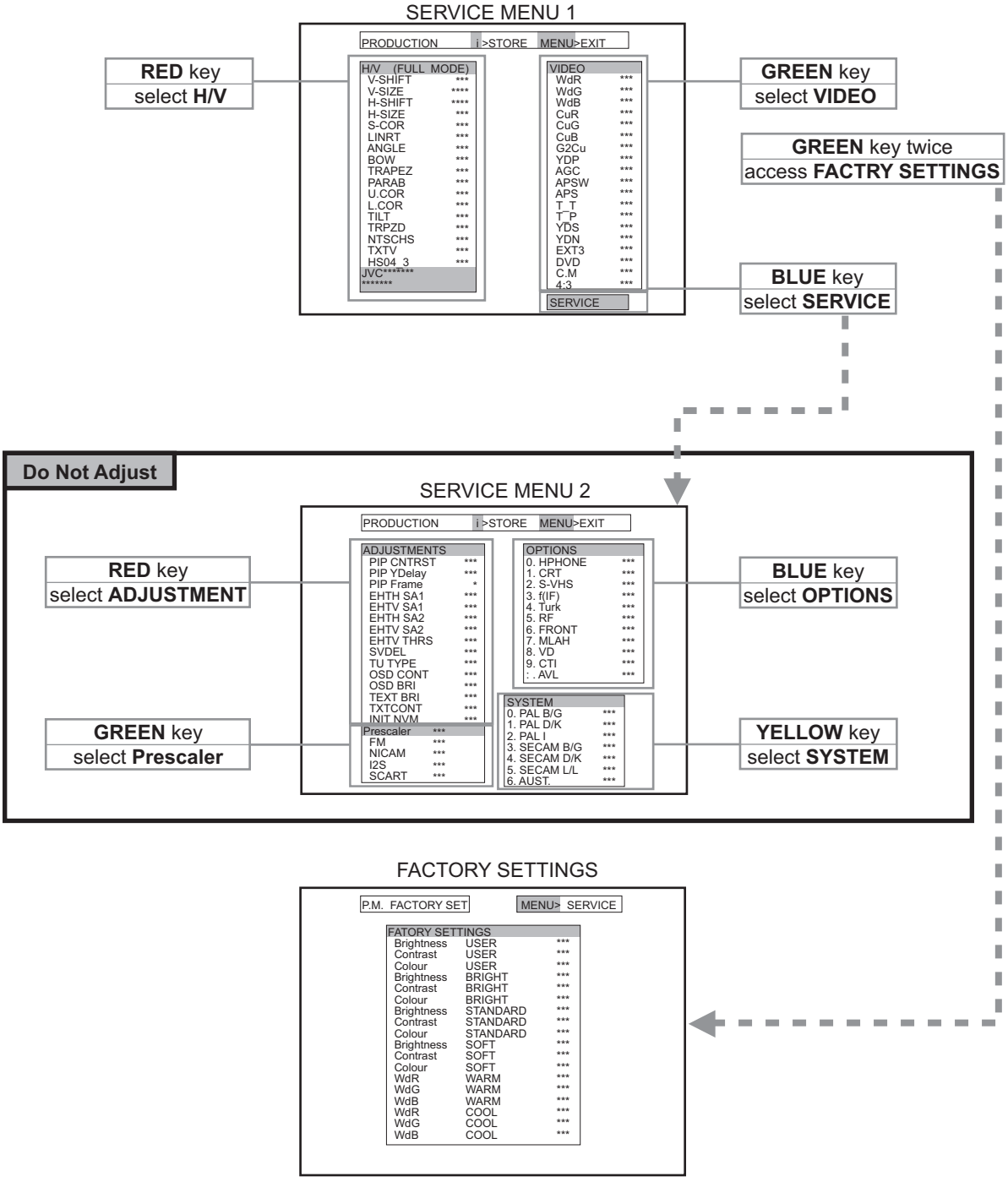


4.5.4 COLOUR KEY FUNCTION AND SCREEN DISPLAY

Colour key function in the SERVICE MENU

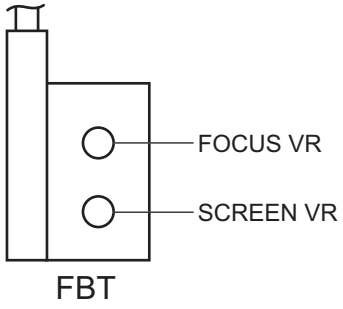
Colour key	Press time	Select menu
RED	onece	H/V
	twice	---
GREEN	onece	VIDEO
	twice	---
YELLOW	onece	---
	twice	---
BLUE	onece	SERVICE (SERVICE MENU 2)
	twice	---





4.6 ADJUSTMENTS PROCEDURE

4.6.1 FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator Remote control unit		**FOCUS VR** [On the FBT]	(1) Receive a crosshatch signal. (2) Adjust **FOCUS VR** on the FBT as thin as possible. 

4.6.2 SCREEN ADJUSTMENT

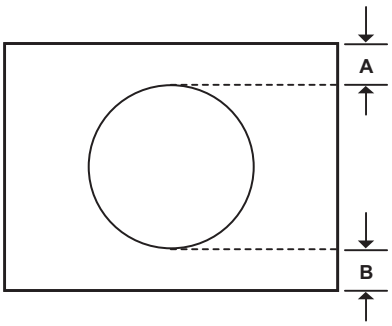
Item	Measuring instrument	Test point	Adjustment part	Description
SCREEN adjustment	Remote control unit		**SCREEN VR** [On the FBT]	(1) Press [**MUTING**] and [**INFORMATION**] key at the sametime. And then press [**BLUE**] and [**TELETEXT**] key respectively. Enter screen adjustment from the service mode. (2) Adjust the **SCREEN VR** until the "**G2 ADJUST OK**" sign appears.

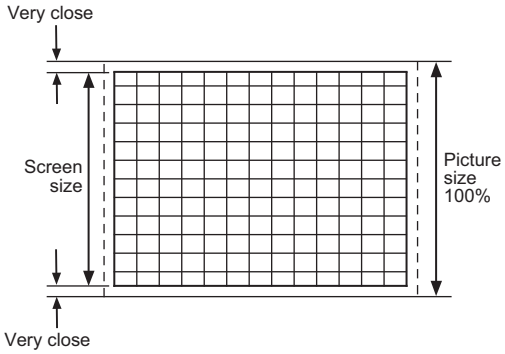
4.6.3 AGC ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
AGC adjustment	Signal generator Remote control unit DC volt meter		**AGC**	(1) Receive a **PAL BG** signal at 60dBμV RF signal level. (2) Enter the SERVICE MODE. (3) Press the [**GREEN**] key to enter the **VIDEO** adjustment group. (4) Select **AGC**. (5) Adjust **AGC** by pressing until voltage at **pin 1** of TUNER is equal to 3.0V. (6) Press the [**INFORMATION**] key to memorize the set value.

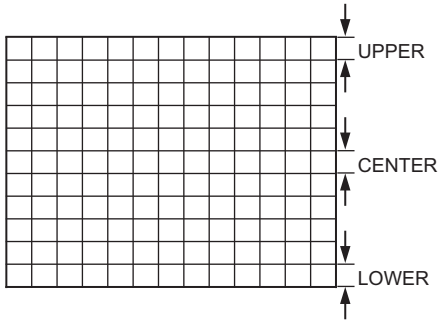
4.6.4 DEFLECTION CIRCUIT ADJUSTMENT

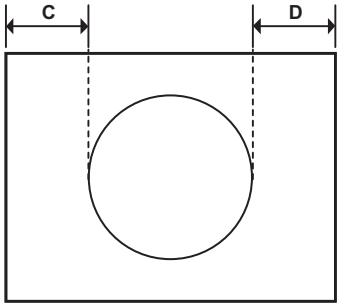
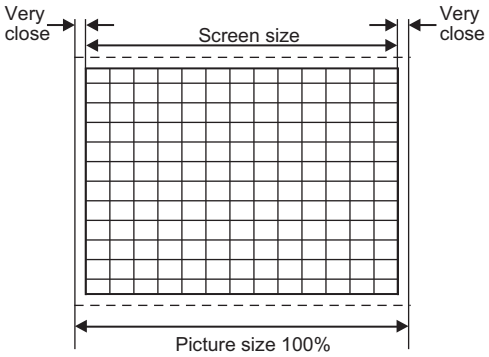
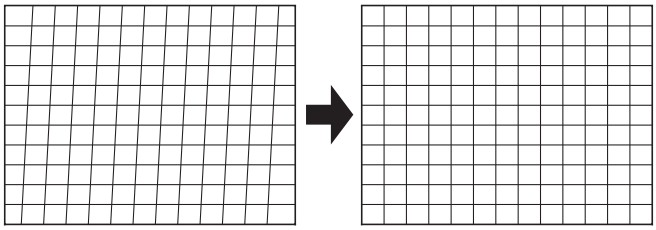
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>VERTICAL SHIFT adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>V-SHIFT</td><td rowspan="2">(1) Receive a circle pattern signal.
(2) Enter the SERVICE MODE.
(3) Press the [RED] key to enter the H/V adjustment group.
(4) Select V-SHIFT.
(5) Adjust V-SHIFT to make A=B.
(6) Check and readjust V-SHIFT item if the adjustment becomes improper after some other geometric adjustments are done.
(7) Press the [INFORMATION] key to memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>VERTICAL SIZE adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>V-SIZE</td><td rowspan="2">(1) Receive a crosshatch signal.
(2) Enter the SERVICE MODE.
(3) Press the [RED] key to enter the H/V adjustment group.
(4) Select V-SIZE.
(5) Adjust V-SIZE until horizontal black lines on both the upper and lower part of the crosshatch pattern become very closeted the upper and lower horizontal sides of picture size and nearly about to disappear.
(6) Check and readjust V-SIZE item if the adjustment becomes improper after some other geometric adjustments are done.
(7) Press the [INFORMATION] key to memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>VERTICAL S-CORRECTION & LINEARITY adjustment</td><td>Signal generator

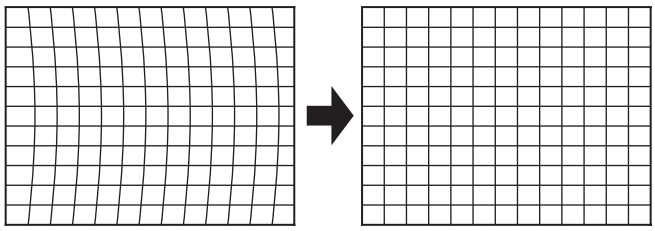
Remote control unit</td><td></td><td>S-COR

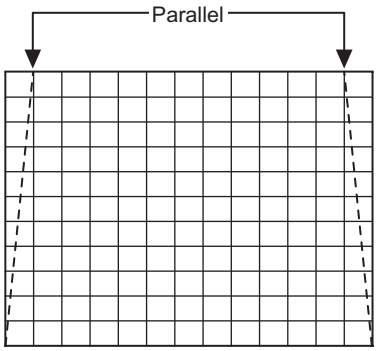
LINRT</td><td rowspan="2">(1) Receive a crosshatch signal.
(2) Enter the SERVICE MODE.
(3) Press the [RED] key to enter the H/V adjustment group.
(4) Select S-COR.
(5) Adjust S-COR until the size of squares on both the upper and lower part of crosshatch pattern become equal to the squares laying on the vertical center of the cross-hatch pattern.
(6) Check and readjust S-COR item if the adjustment becomes improper after some other geometric adjustments are done.
(7) Press the [INFORMATION] key to memorize the set value.
(8) Select LINRT.
(9) Adjust LINRT until all the size of squares of the cross-hatch pattern become in equal size from the top of the screen to its bottom of the whole screen.
(10) Check and readjust LINRT item if the adjustment becomes improper after some other geometric adjustments (especially after than S-COR adjustment) are done.
(11) Press the [INFORMATION] key to memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
</table>

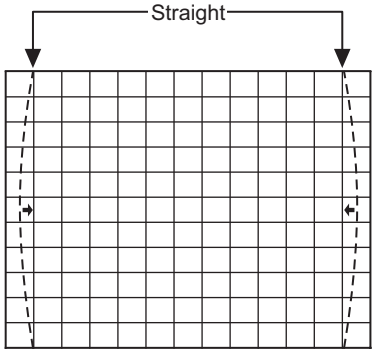
Item	Measuring instrument	Test point	Adjustment part	Description
HORIZONTAL SHIFT adjustment	Signal generator Remote control unit		**H-SHIFT**	(1) Receive a circle pattern signal. (2) Enter the SERVICE MODE. (3) Press the [**RED**] key to enter the **H/V** adjustment group. (4) Select **H-SHIFT**. (5) Adjust **H-SHIFT** to make **C=D**. (6) Check and readjust **H-SHIFT** item if the adjustment becomes improper after some other geometric adjustments are done. (7) Press the [**INFORMATION**] key to memorize the set value.
				
HORIZONTAL SIZE adjustment	Signal generator Remote control unit		**H-SIZE**	(1) Receive a cross-hatch signal. (2) Enter the SERVICE MENU. (3) Press the [**RED**] key to enter the **H/V** adjustment group. (4) Select **H-SIZE**. (5) Adjust **H-SIZE** until vertical lines on both the left and right part of the cross-hatch will be visible nor screen will be so wide. (6) Check and readjust **H-SIZE** item if the adjustment becomes improper after some other geometric adjustments are done. (7) Press the [**INFORMATION**] key to memorize the set value.
				
ANGLE adjustment	Signal generator Remote control unit		**ANGLE**	(1) Receive a crosshatch signal. (2) Enter the SERVICE MODE. (3) Press the [**RED**] key to enter the **H/V** adjustment group. (4) Select **ANGLE**. (5) Adjust **ANGLE** until the vertical lines of the crossatch pattern become straight. (6) Check and readjust **ANGLE** item if the adjustment becomes improper after some other geometric adjustments are done. (7) Press the [**INFORMATION**] key to memorize the set value.
				

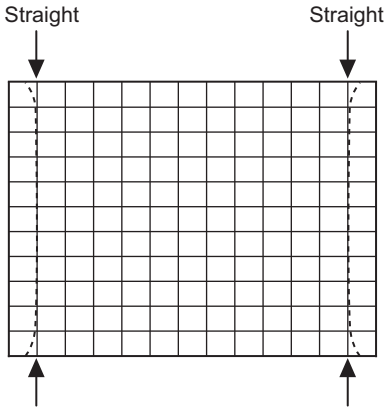
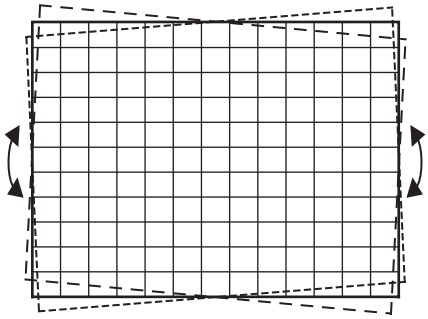
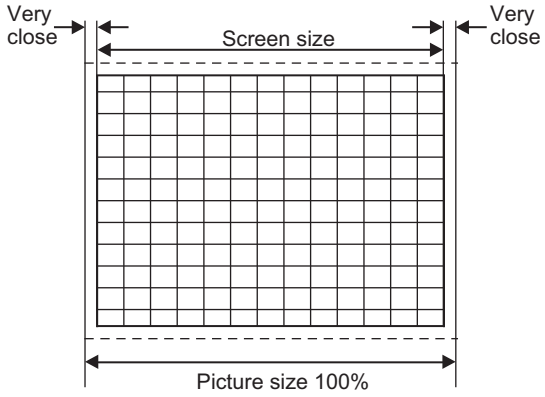
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>BOW adjustment</td><td>Signal generator

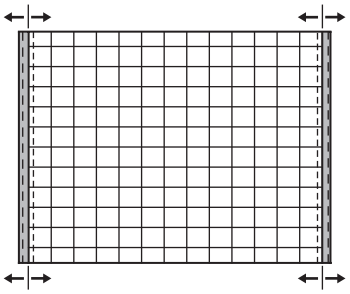
Remote control unit</td><td></td><td>BOW</td><td rowspan="2">(1) Receive a crosshatch signal.
(2) Enter the SERVICE MODE.
(3) Press the [RED] key to enter the H/V adjustment group.
(4) Select BOW.
(5) Adjust BOW until the vertical lines become straight.
(6) Check and readjust BOW item if the adjustment becomes improper after some other geometric adjustments are done.
(7) Press the [INFORMATION] key to memorize the set value.

NOTE :
In case where there is a bow-shaped distortion of images on the screen. (Figure)</td></tr>
<tr><td colspan="4">  </td></tr>
<tr><td>TRAPEZIUM adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>TRAPEZ</td><td rowspan="2">(1) Receive a crosshatch signal.
(2) Enter the SERVICE MODE.
(3) Press the [RED] key to enter the H/V adjustment group.
(4) Select TRAPEZ.
(5) Adjust TRAPEZ until vertical lines, especially lines at the sides of the picture frame become parallel to the both sides of picture tubes as close as possible.
(6) Check and readjust TRAPEZ item if the adjustment becomes improper after some other geometric adjustments are done.
(7) Press the [INFORMATION] key to memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>SIDE PIN adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>PARAB</td><td rowspan="2">(1) Receive a crosshatch signal.
(2) Enter the SERVICE MODE.
(3) Press the [RED] key to enter the H/V adjustment group.
(4) Select PARAB.
(5) Adjust PARAB until vertical lines close to the both sides of the picture frame become straight to vertical sides of picture tube without any bending to left or to right side of the screen.
(6) Check and readjust PARAB item if the adjustment becomes improper after some other geometric adjustments are done.
(7) Press the [INFORMATION] key to memorize the set value.</td></tr>
<tr><td colspan="4"> 
</td></tr>
</table>

Item	Measuring instrument	Test point	Adjustment part	Description
CORNER adjustment	Signal generator Remote control unit		**U.COR** **L.COR**	(1) Receive a crosshatch signal. (2) Enter the SERVICE MODE. (3) Press the [**RED**] key to enter the **H/V** adjustment group. (4) Select **U.COR**. (5) Adjust **U.COR** until vertical lines at the upper corners of the picture frame become vertical and parallel to vertical corner sides of picture tube. (6) Check and readjust **U.COR** item if the adjustment becomes improper after some other geometric adjustments are done. (7) Select **L.COR**. (8) Adjust **L.COR** until vertical lines at the lower corners of the picture frame become vertical and parallel to vertical corner sides of picture tube. (9) Check and readjust **L.COR** item if the adjustment becomes improper after some other geometric adjustments are done. (10) Press the [**INFORMATION**] key to memorize the set value.
				
ROTATION adjustment	Signal generator Remote control unit		**TILT**	(1) Receive a crosshatch signal. (2) Enter the SERVICE MODE. (3) Press the [**RED**] key to enter the **H/V** adjustment group. (4) Select **TILT**. (5) Adjust **TILT** to rotate the complete master clockwise and counter clockwise depending on the CRT. (6) Check and readjust **TRAPEZ** item if the adjustment becomes improper after some other geometric adjustments are done. (7) Press the [**INFORMATION**] key to memorize the set value.
				
NTSC HORIZONTAL SIZE adjustment	Signal generator Remote control unit		**NTSCHS**	(1) Receive a NTSC crosshatch signal. (2) Enter the SERVICE MODE. (3) Press the [**RED**] key to enter the **H/V** adjustment group. (4) Select **NTSCHS**. (5) Adjust **NTSCHS** until vertical lines on both the left and right part of the cross-hatch will be visible nor screen will be so wide. (6) Check and readjust **TRAPEZ** item if the adjustment becomes improper after some other geometric adjustments are done. (7) Press the [**INFORMATION**] key to memorize the set value.
				

Item	Measuring instrument	Test point	Adjustment part	Description
TELETEXT VERTICAL SIZE adjustment	Signal generator Remote control unit		**TXTV**	(1) Receive a crosshatch signal. (2) Enter the SERVICE MODE. (3) Press the [**RED**] key to enter the **H/V** adjustment group. (4) Select **TXTV**. (5) Adjust **TXTV** to adjust the proper vertical size of Teletext screen. (6) Check and readjust **TRAPEZ** item if the adjustment becomes improper after some other geometric adjustments are done. (7) Press the [**INFORMATION**] key to memorize the set value.
4:3 TUBE adjustment	Signal generator Remote control unit		**HS04_3**	(1) Receive a crosshatch signal. (2) Enter the SERVICE MODE. (3) Press the [**RED**] key to enter the **H/V** adjustment group. (4) Select **HS04_3**. (5) Adjust **HS04_3** to adjust the proper horizontal size of 4:3 tube. (6) Press the [**INFORMATION**] key to memorize the set value.
				

4.6.5 VIDEO CIRCUIT ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE adjustment	Signal generator Remote control unit		**WdR** **WdG** **WdB**	(1) Receive a black & white signal. (2) Enter the SERVICE MODE. (3) Press the [**GREEN**] key to enter the **VIDEO** adjustment group. (4) Select **WdR**, **WdG** and **WdB** respectively. (5) Adjust **WdR**, **WdG** and **WdB** respectively, until the white part turns to pure white without any other colour. (6) Press the [**INFORMATION**] key to memorize the set value.
COLOUR CUTOFF LEVEL adjustment	Signal generator Remote control unit		**CuR** **CuG** **CuB**	(1) Receive a crosshatch signal. (2) Enter the SERVICE MODE. (3) Press the [**GREEN**] key to enter the **VIDEO** adjustment group. (4) Select **CuR**, **CuG** and **CuB** respectively. (5) Adjust **CuR**, **CuG** and **CuB** respectively, and set the values of these items as **64** (contrast). (6) Press the [**INFORMATION**] key to memorize the set value.
PAL Y DELAY adjustment	Signal generator Remote control unit		**YDP**	(1) Receive a **PAL** colour bar signal. (2) Enter the SERVICE MODE. (3) Press the [**GREEN**] key to enter the **VIDEO** adjustment group. (4) Select **YDP**. (5) Adjust **YDP** until the colour transients on the colour bar pattern becomes as sharper and possible as colours between transients do not mix with each other. (6) Press the [**INFORMATION**] key to memorize the set value.
SECAM Y DELAY adjustment	Signal generator Remote control unit		**YDS**	(1) Receive a **SECAM** colour bar signal. (2) Enter the SERVICE MODE. (3) Press the [**GREEN**] key to enter the **VIDEO** adjustment group. (4) Select **YDS**. (5) Adjust **YDS** by pressing until the colour transients on the colour bar pattern becomes as sharper and possible as colours between transients do not mix with each other. (6) Press the [**INFORMATION**] key to memorize the set value.
NTSC Y DELAY adjustment	Signal generator Remote control unit		**YDN**	(1) Receive a **NTSC** colour bar signal from an external source (e.g. FRONT AV : EXT 4). (2) Enter the SERVICE MODE. (3) Press the [**GREEN**] key to enter the **VIDEO** adjustment group. (4) Select **YDN**. (5) Adjust **YDN** by pressing until the colour transients on the colour bar pattern becomes as sharper and possible as colours between transients do not mix with each other. (6) Press the [**INFORMATION**] key to memorize the set value.

AV-29QH4BU
AV-29QH4SU

STANDARD CIRCUIT DIAGRAM

CONTENTS

BLOCK DIAGRAMS ---------- 2-3

CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM ---------- 2-5
FEATURE BOX PWB CIRCUIT DIAGRAM ---------- 2-15
CRT SOCKET PWB CIRCUIT DIAGRAM ---------- 2-19
LED PWB CIRCUIT DIAGRAM ---------- 2-20
POWER SWITCH PWB CIRCUIT DIAGRAM ---------- 2-20
SIDE CONTROL PWB CIRCUIT DIAGRAM ---------- 2-21
AV & HEADPHONE PWB CIRCUIT DIAGRAM ---------- 2-23

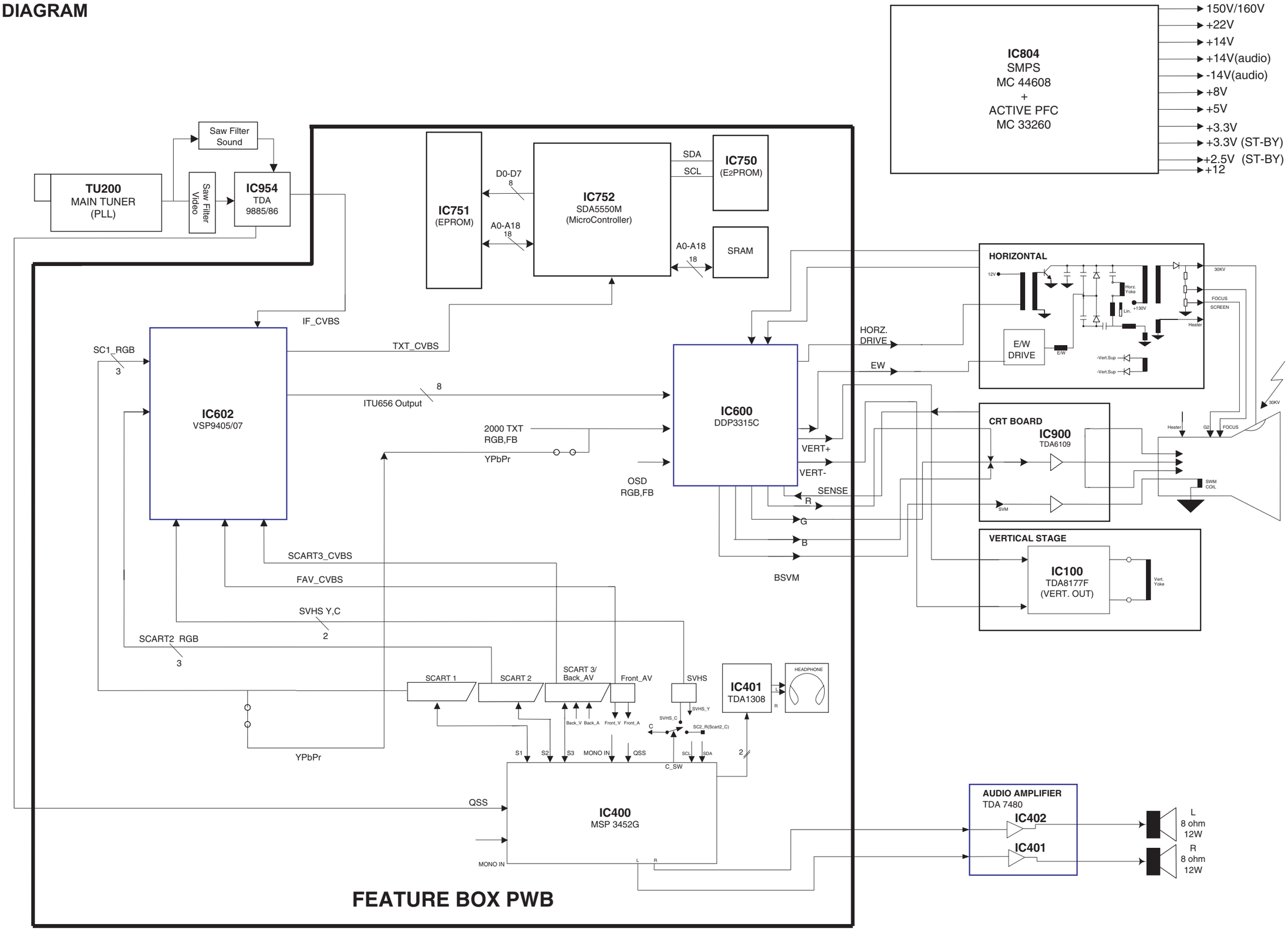
PATTERN DIAGRAMS

MAIN PWB PATTERN ---------- 2-25
FEATURE BOX PWB PATTERN ---------- 2-27
CRT SOCKET PWB PATTERN ---------- 2-29
SIDE CONTROL PWB PATTERN ---------- 2-30
AV & HEADPHONE PWB PATTERN ---------- 2-30
LED PWB PATTERN ---------- 2-31
POWER SWITCH PWB PATTERN ---------- 2-32

USING P.W. BOARD

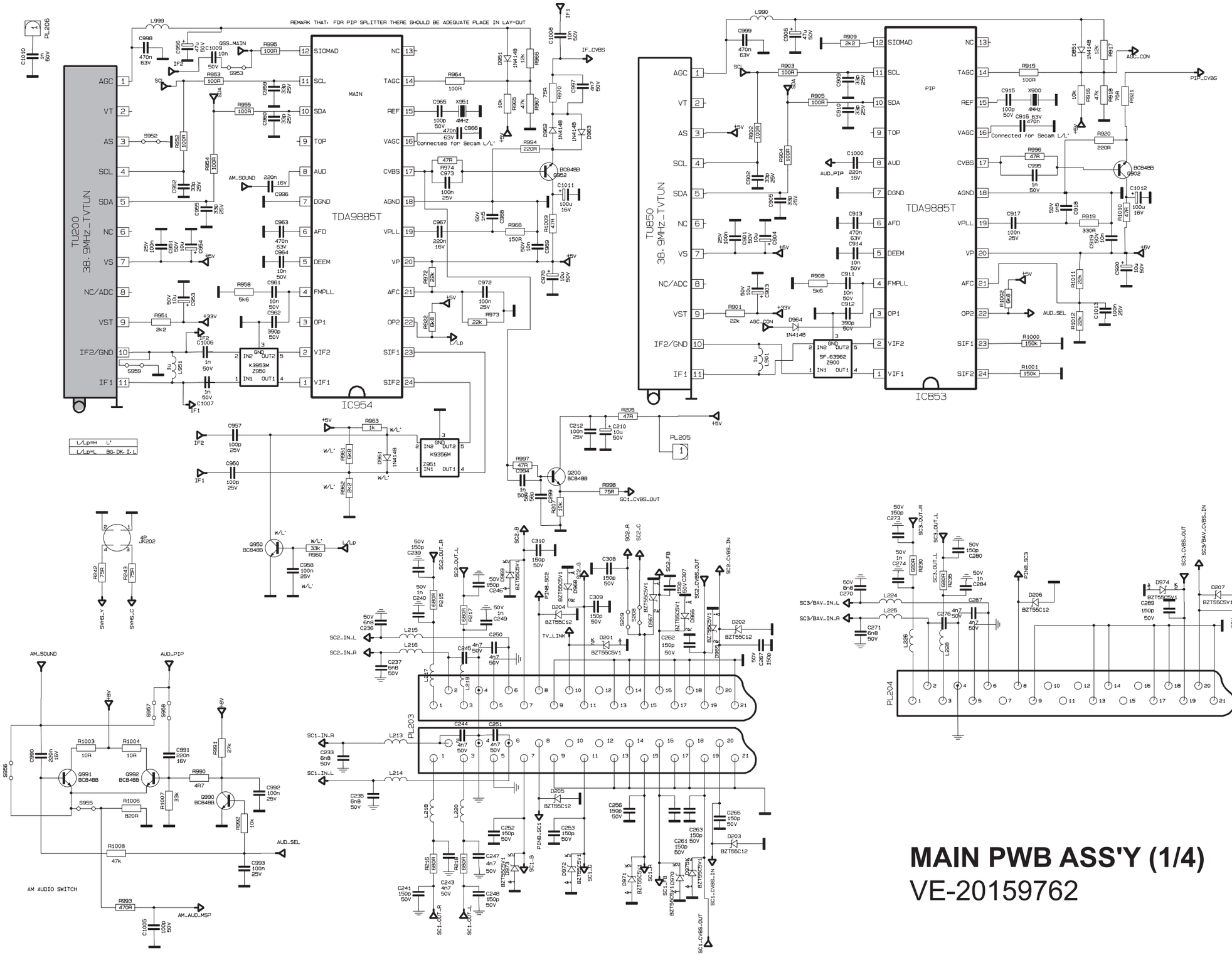
P.W.B ASS'Y name	PWB ASS'Y number
MAIN PWB	VE-20159762
FEATURE BOX PWB	VE-20159754
CRT SOCKET PWB	VE-20171200
SIDE CONTROL PWB	VE-20160920
AV & HEADPHONE PWB	VE-20169086
LED PWB	VE-20167318
POWER SWITCH PWB	VE-20160993

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/4)

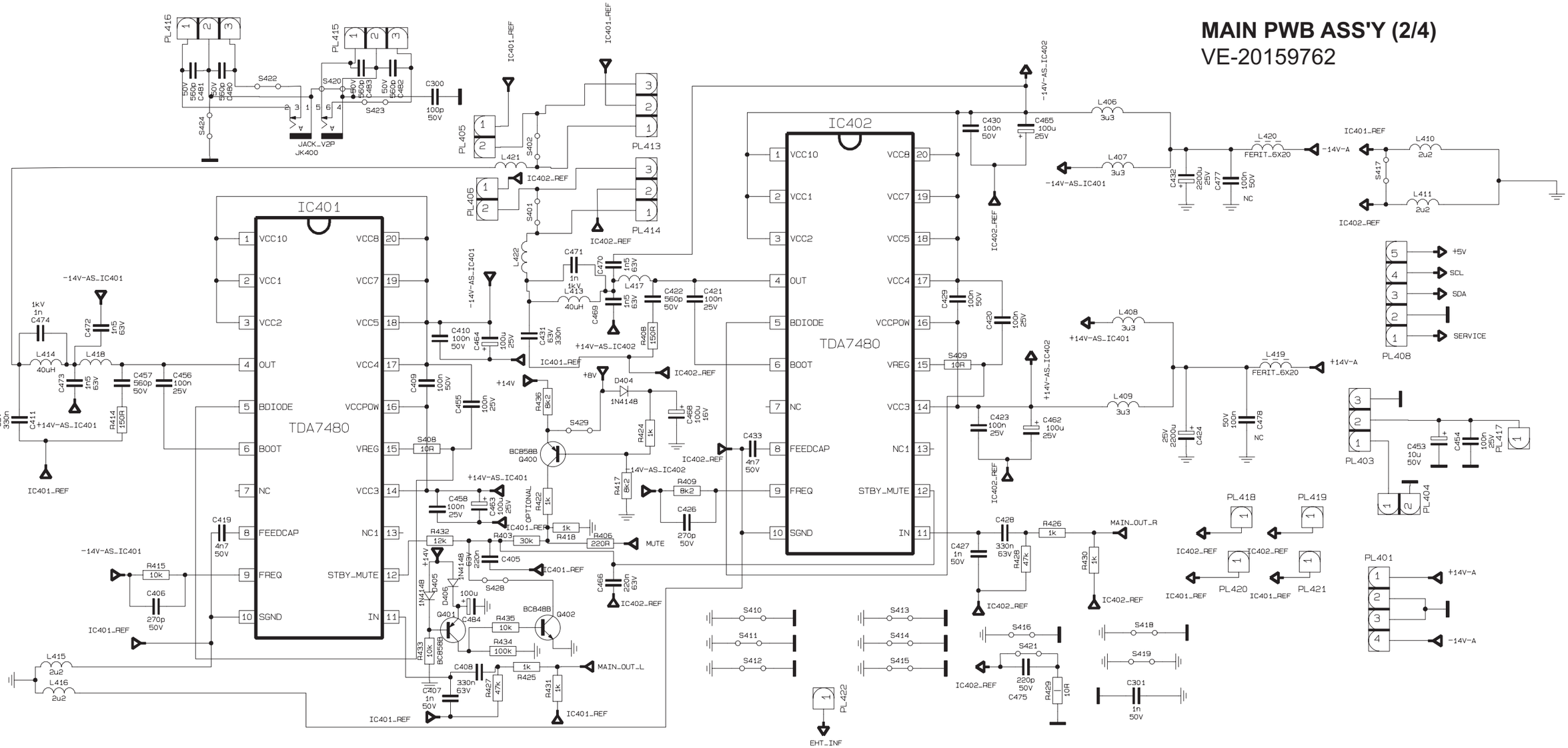


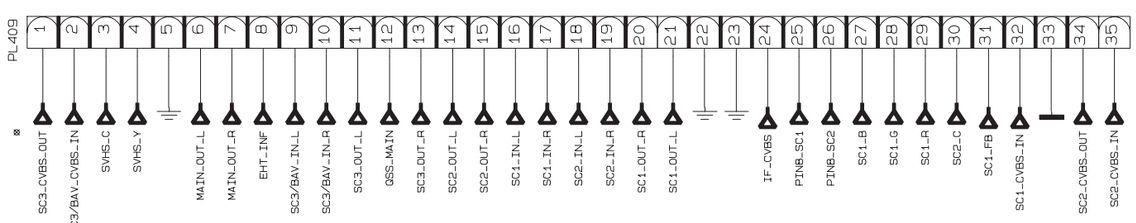
(No.YA086)2-5 2-6(No.YA086)

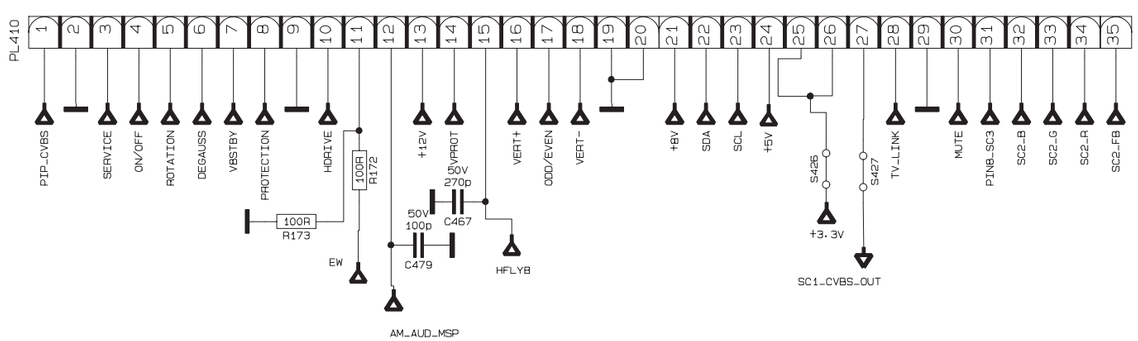
MAIN PWB ASS'Y (1/4)

VE-20159762

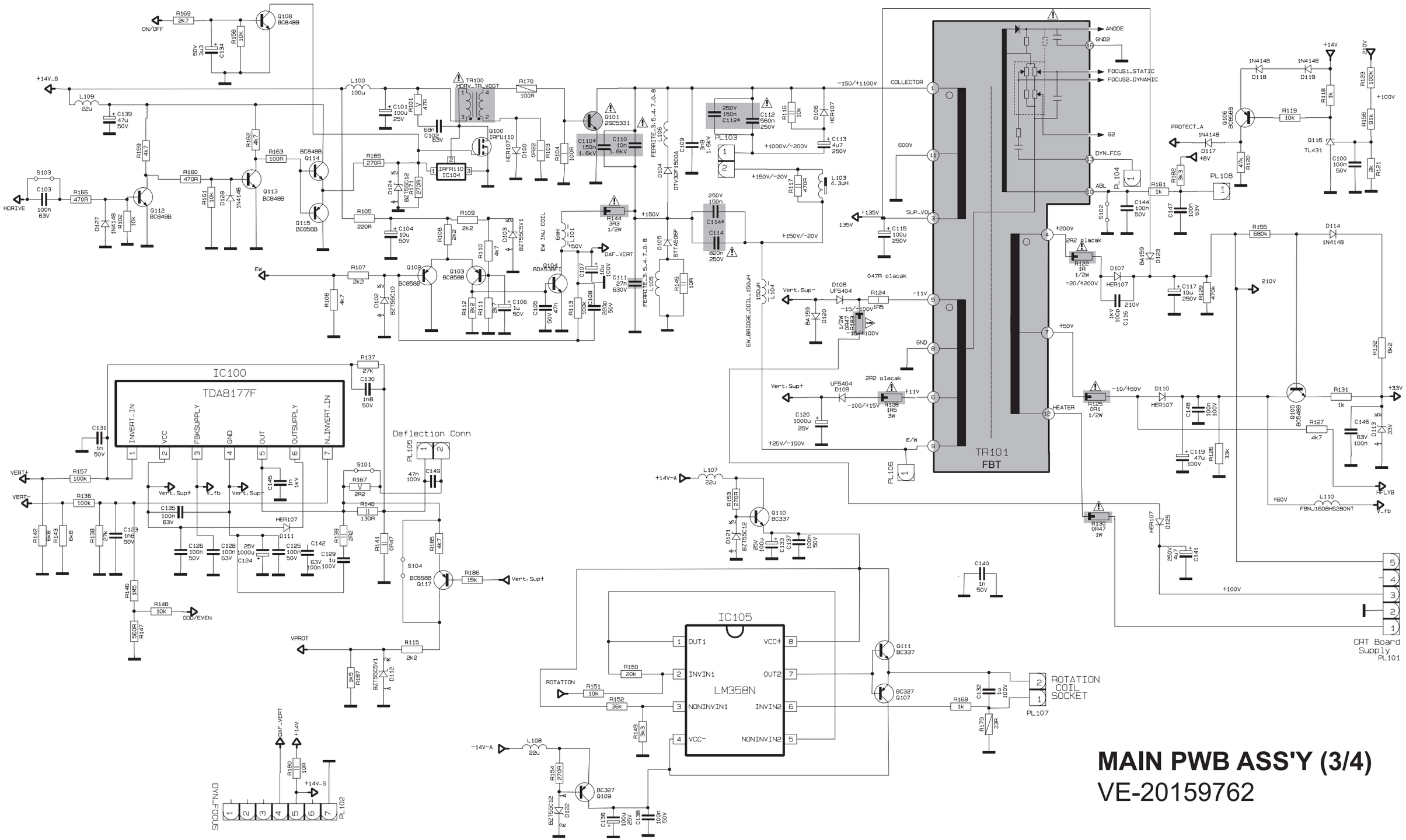
MAIN PWB ASS'Y (2/4)
VE-20159762





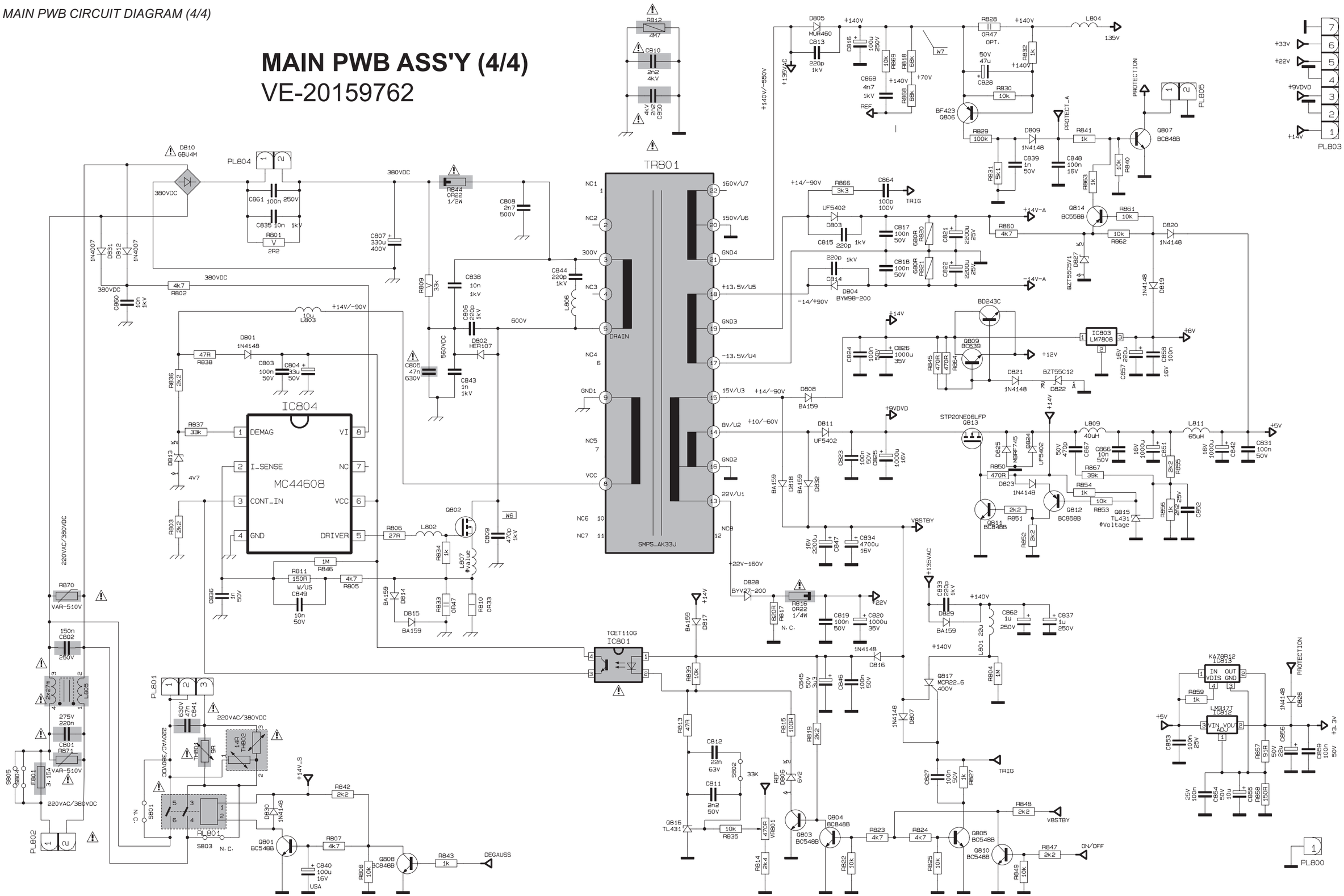


MAIN PWB CIRCUIT DIAGRAM (3/4)

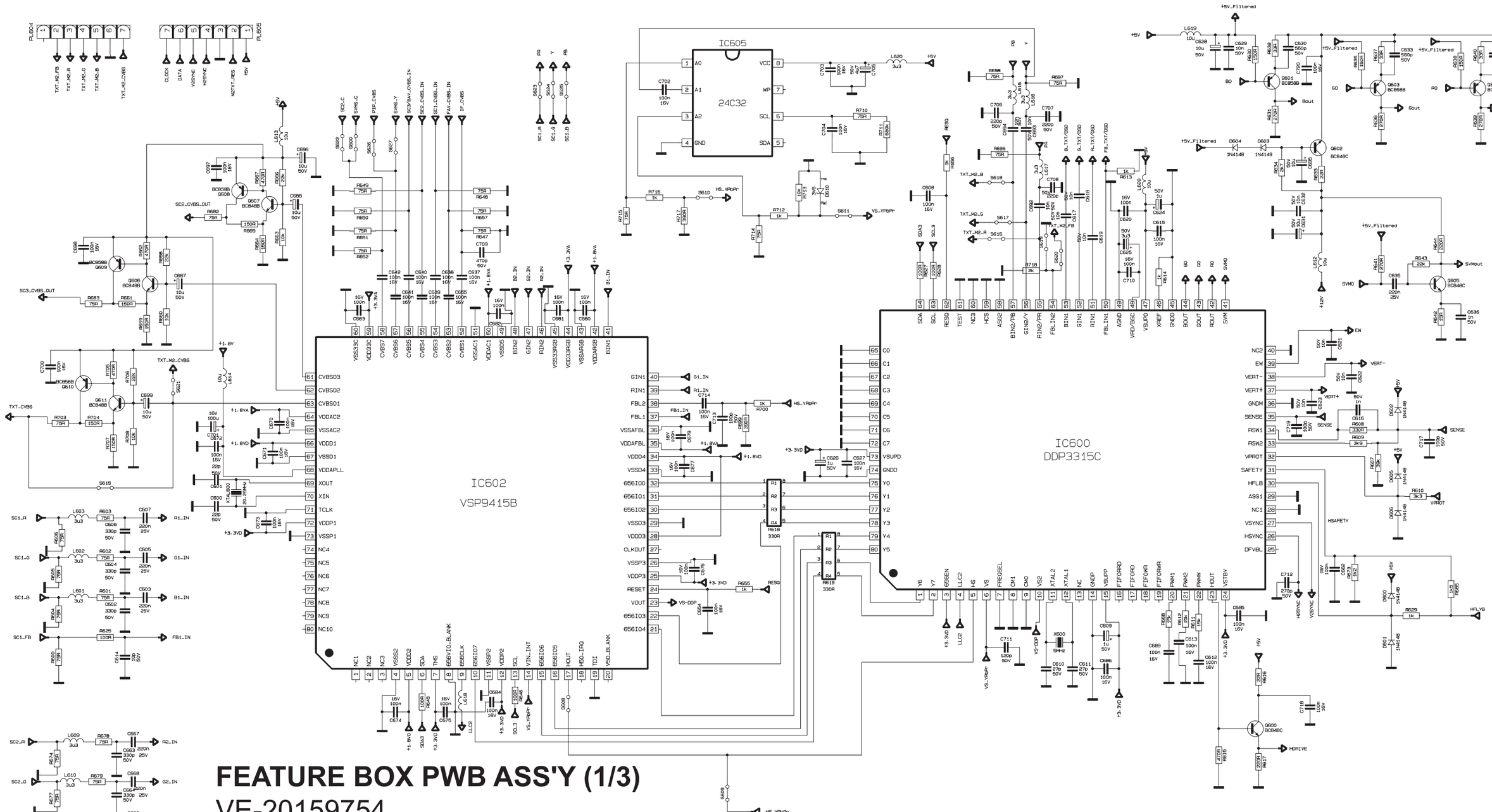


MAIN PWB ASS'Y (3/4)
VE-20159762

MAIN PWB ASS'Y (4/4)
VE-20159762



FEATURE BOX PWB CIRCUIT DIAGRAM (1/3)

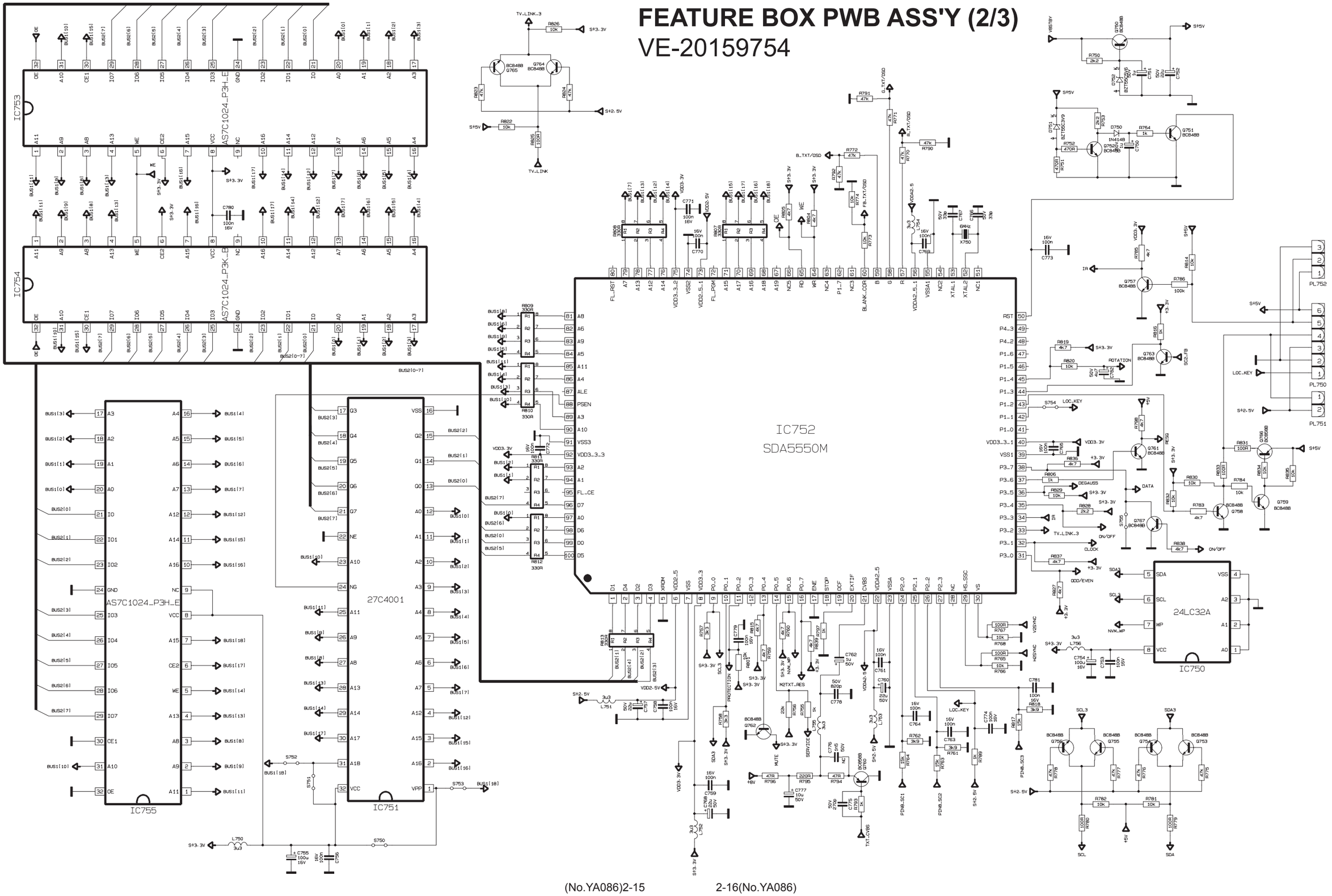


FEATURE BOX PWB ASS'Y (1/3)

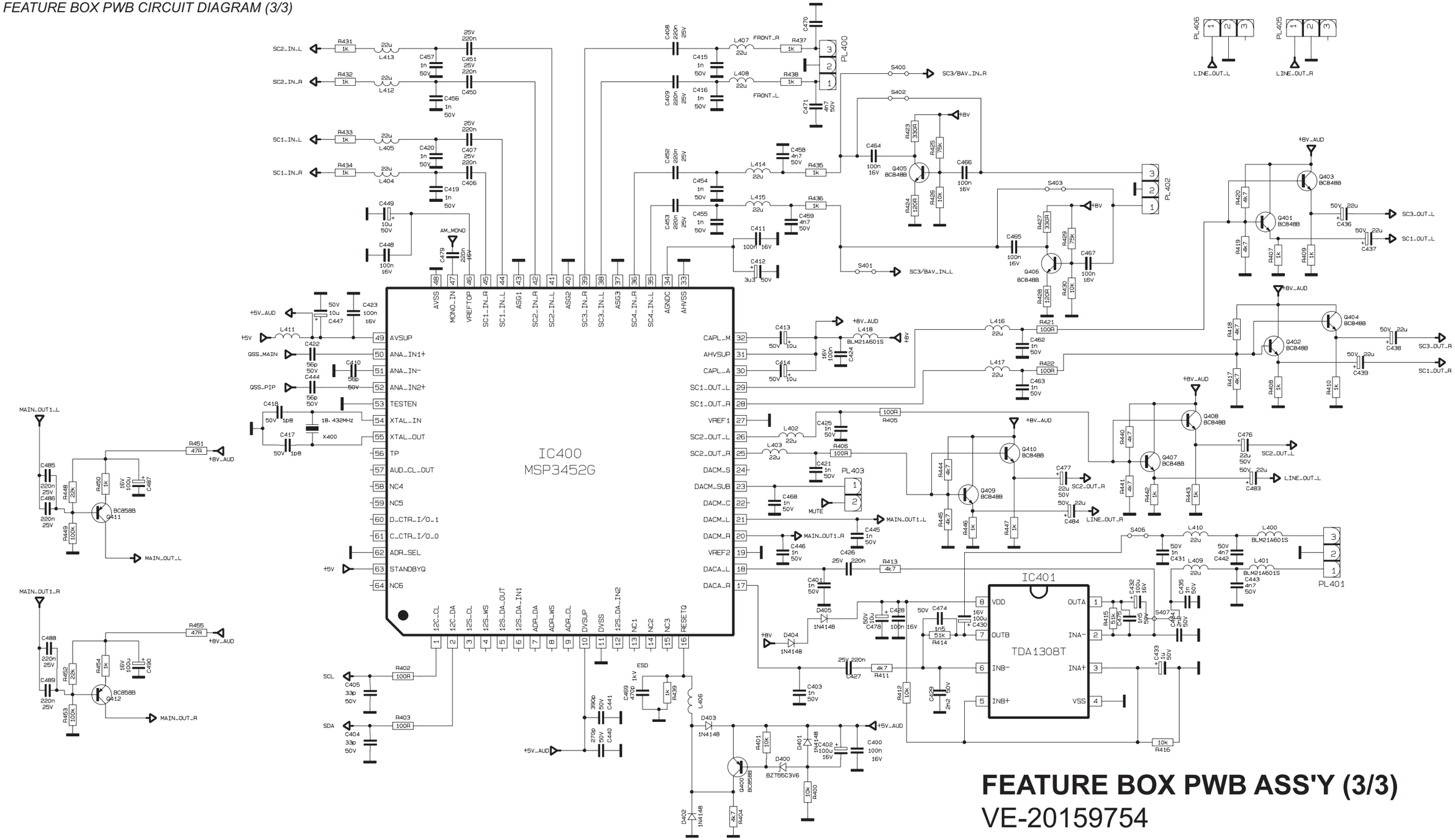
VE-20159754

FEATURE BOX PWB ASS'Y (2/3)

VE-20159754



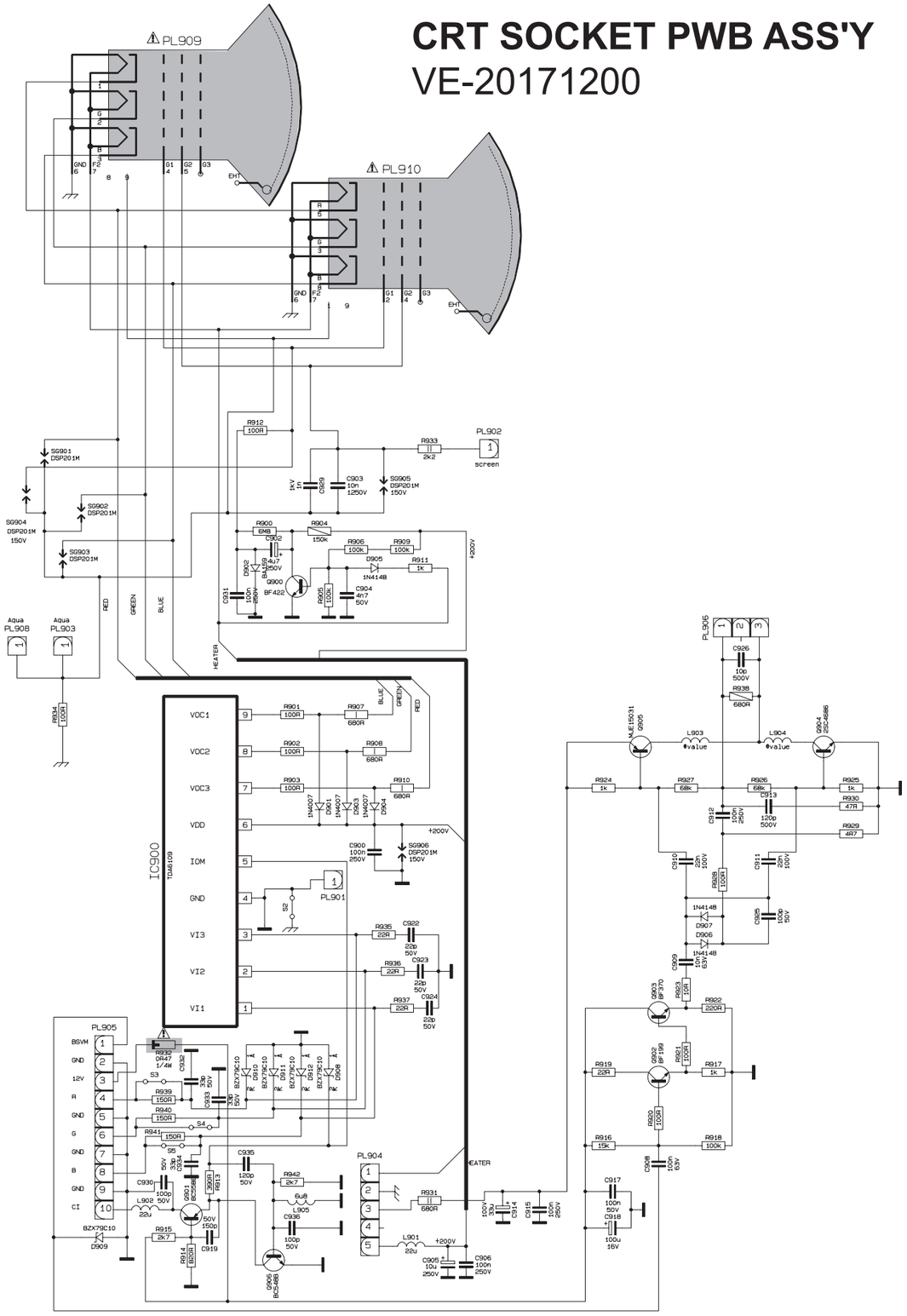
FEATURE BOX PWB CIRCUIT DIAGRAM (3/3)



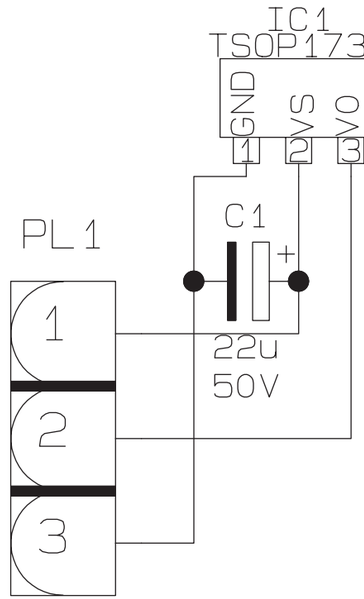
FEATURE BOX PWB ASS'Y (3/3)

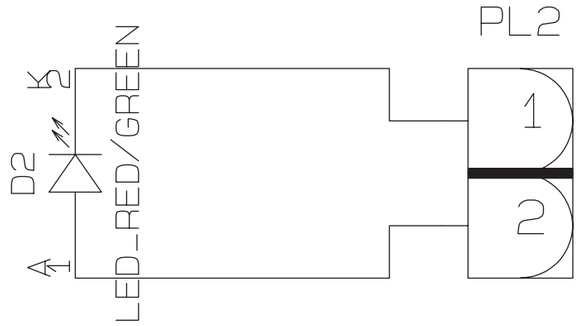
VE-20159754

CRT SOCKET PWB ASS'Y
VE-20171200

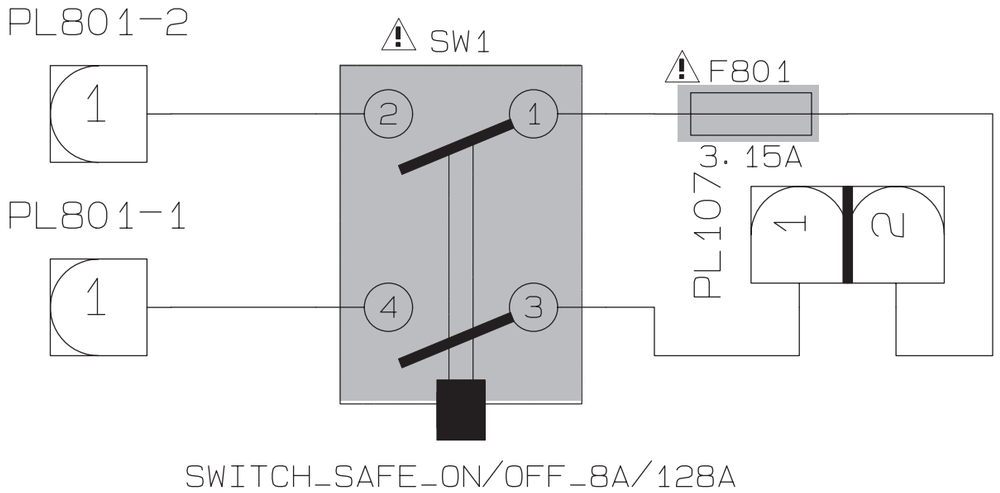


LED PWB ASS'Y
VE-20167318

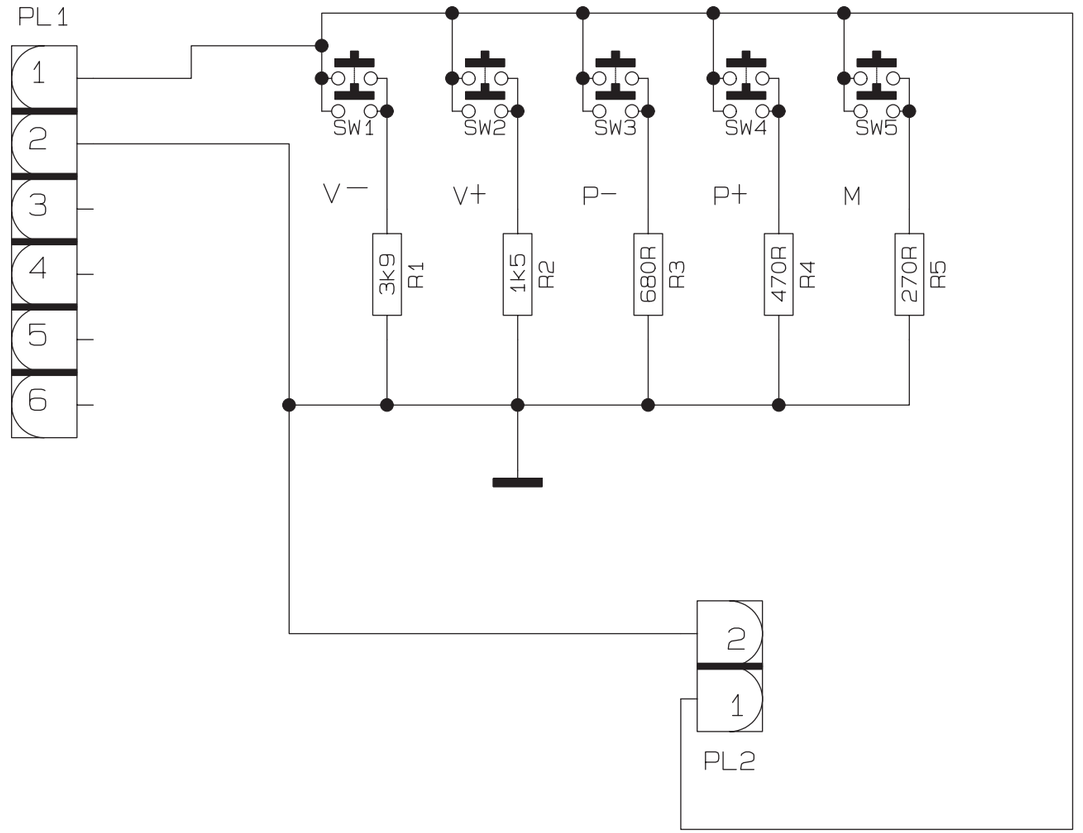




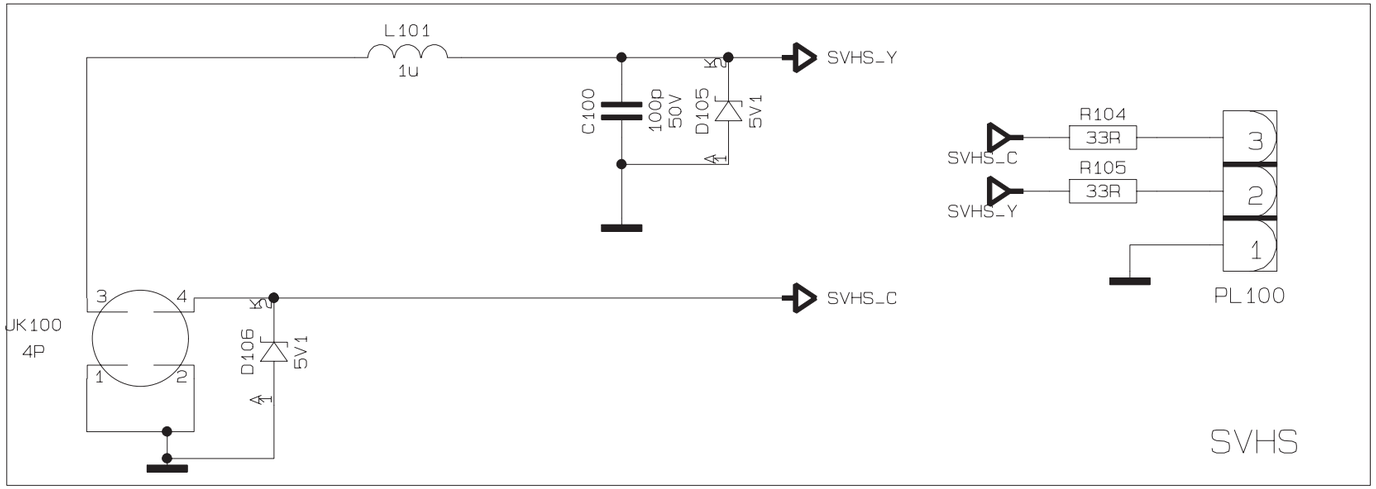
POWER SWITCH PWB ASS'Y
VE-20160993

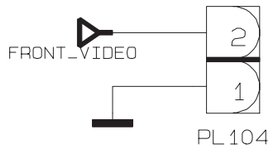


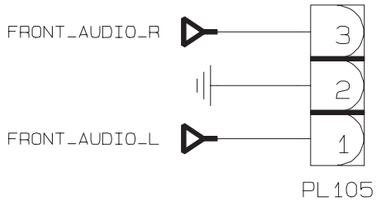
SIDE CONTROL PWB ASS'Y
VE-20160920

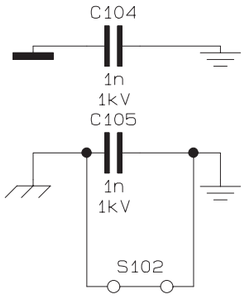


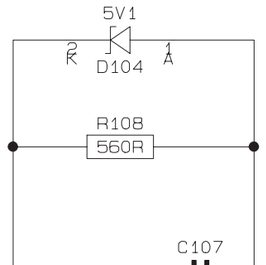
AV & HEADPHONE PWB
VE-20169086

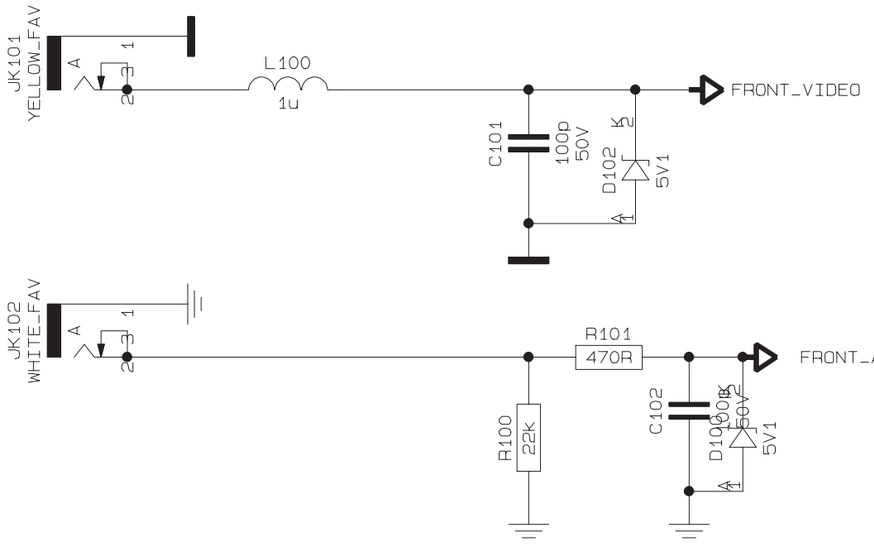


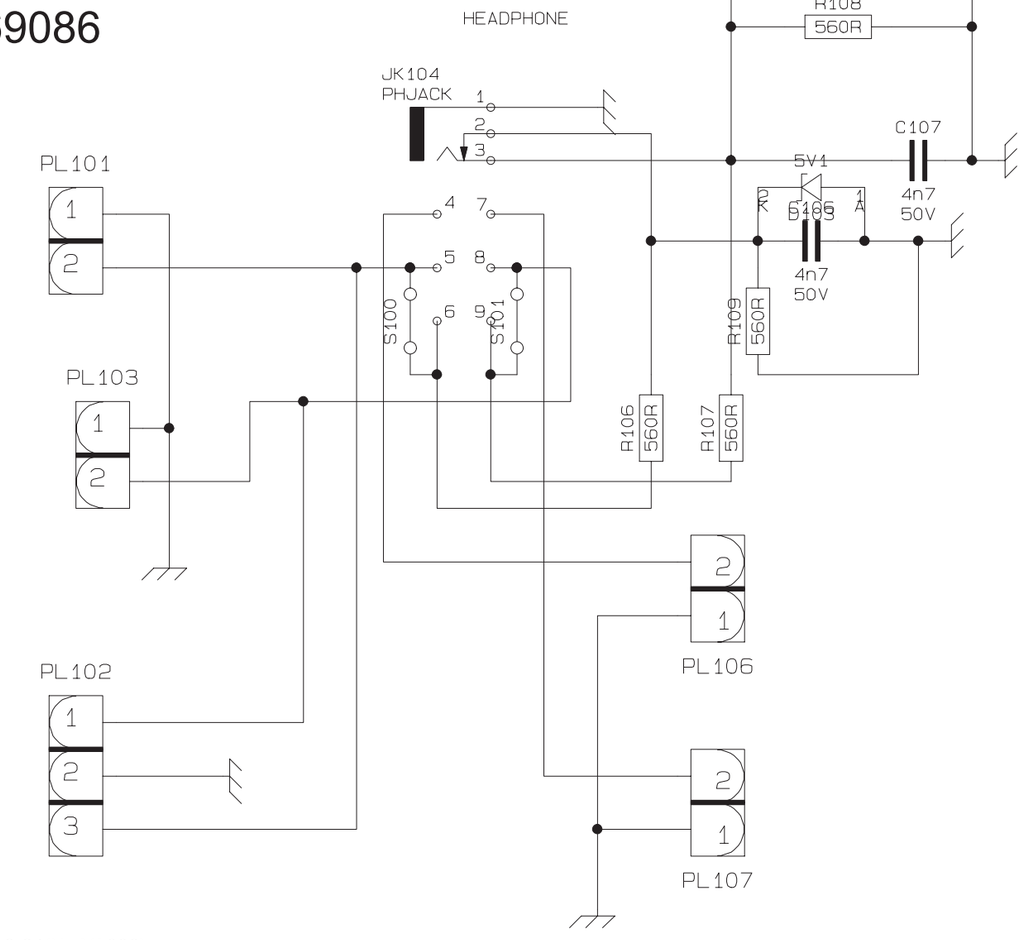






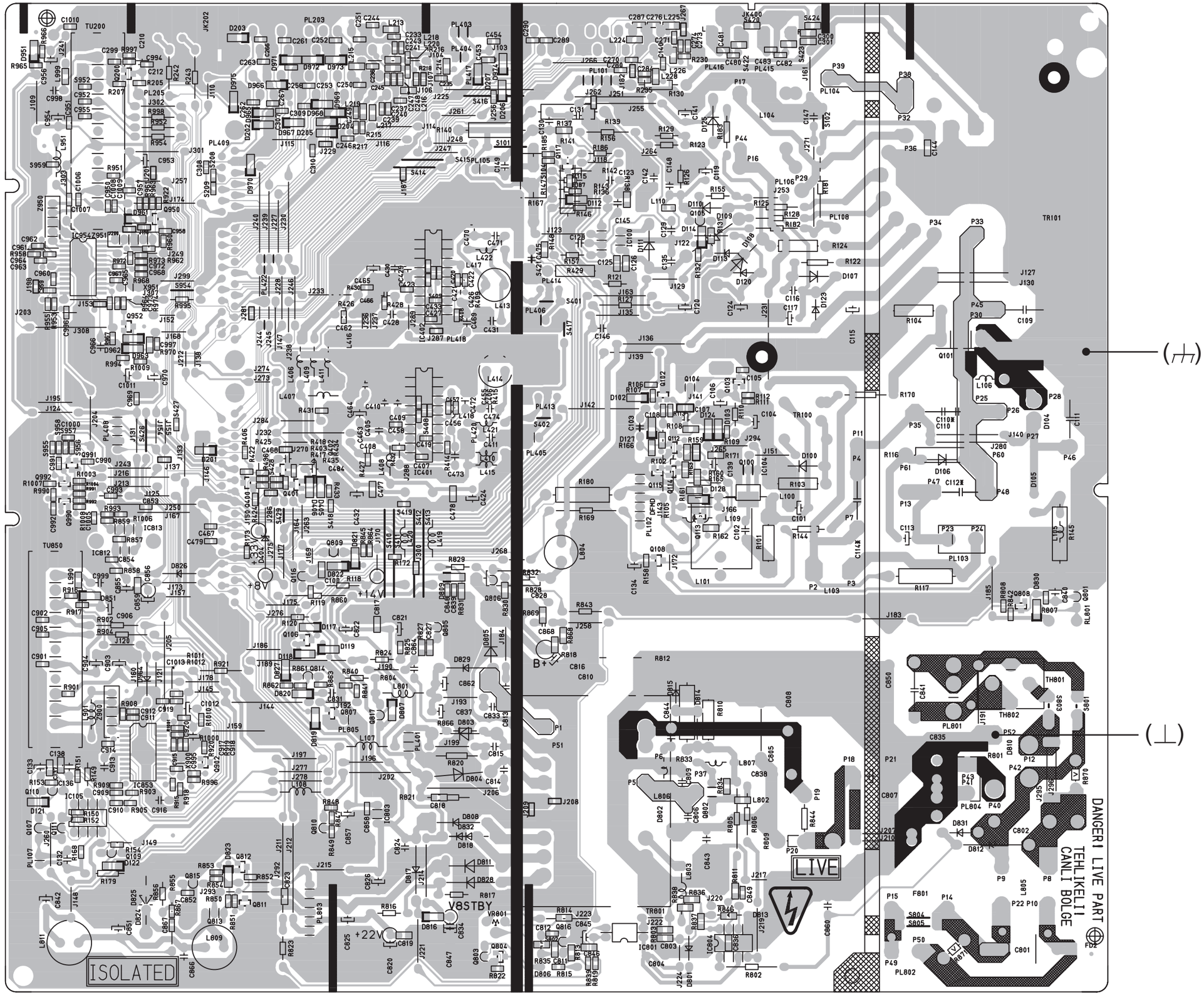




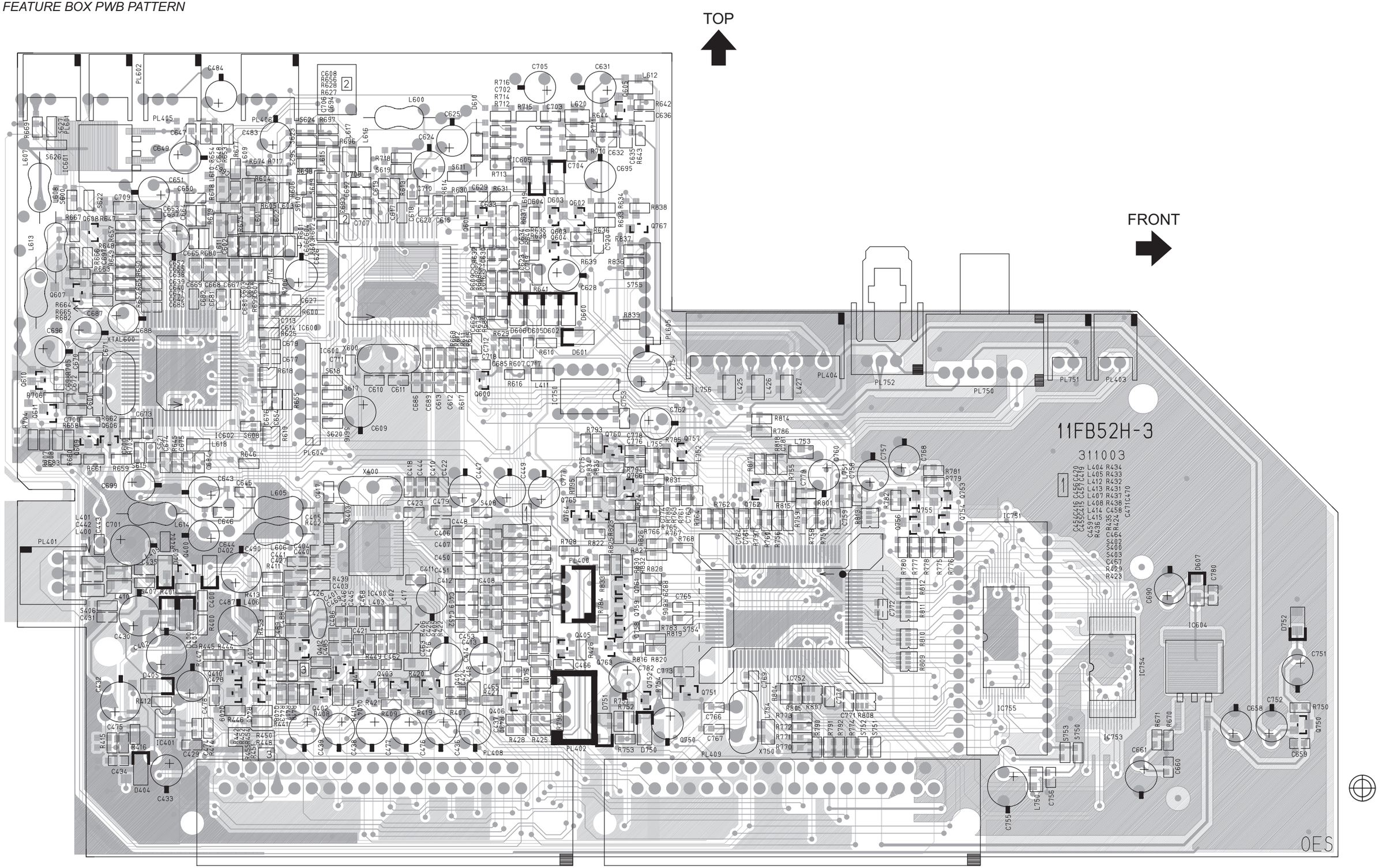


PATTERN DIAGRAMS

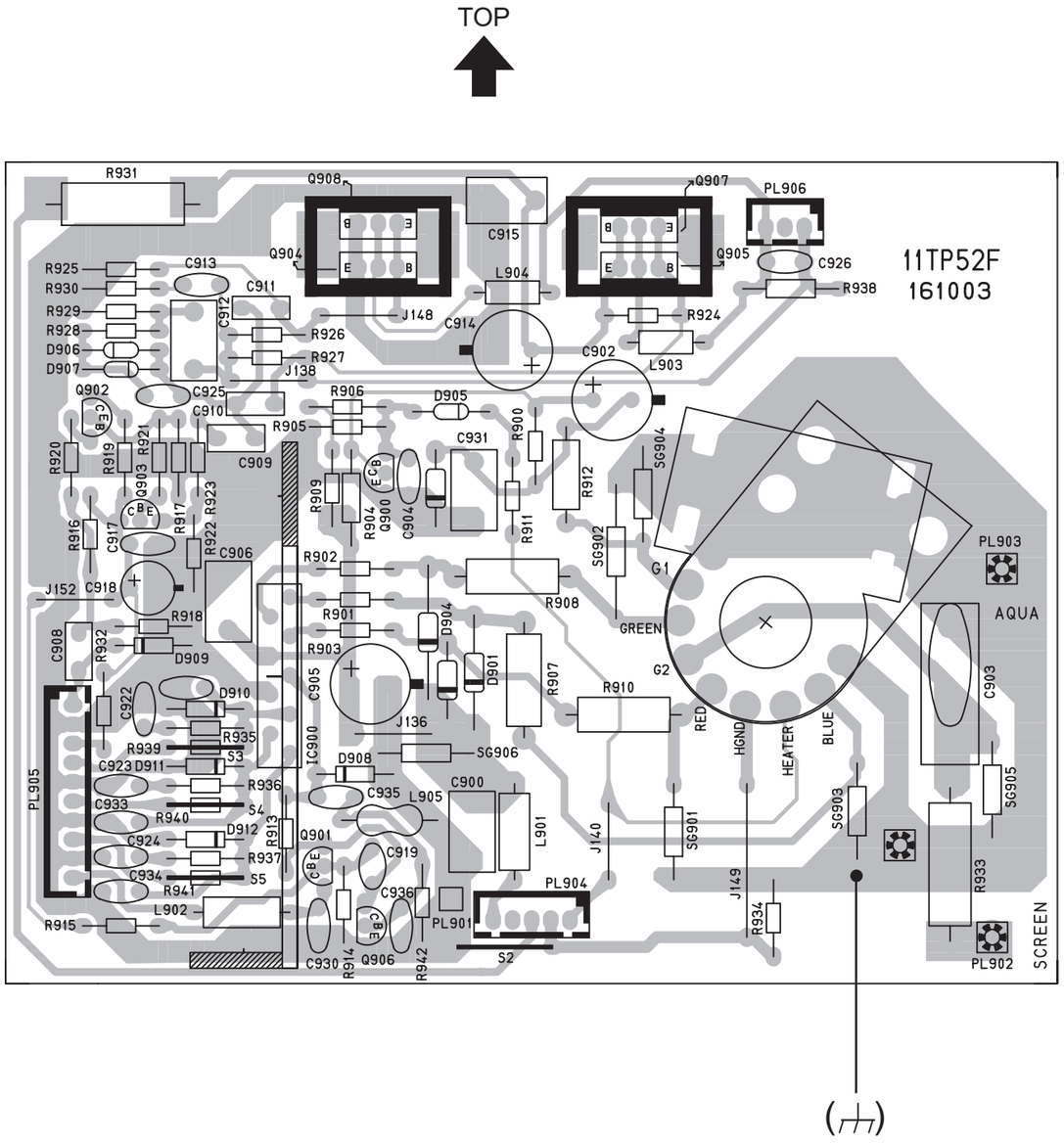
MAIN PWB PATTERN



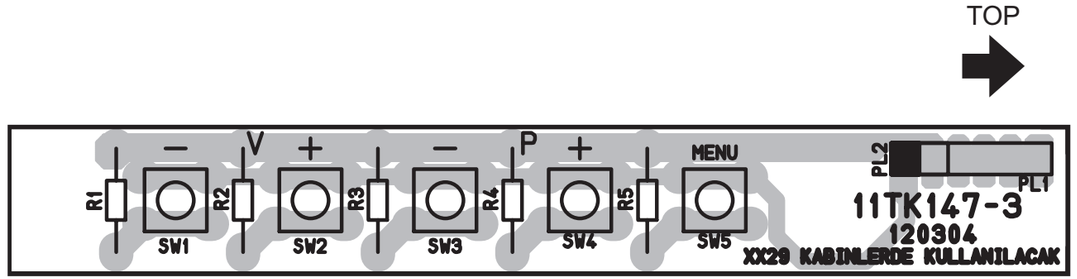
FEATURE BOX PWB PATTERN



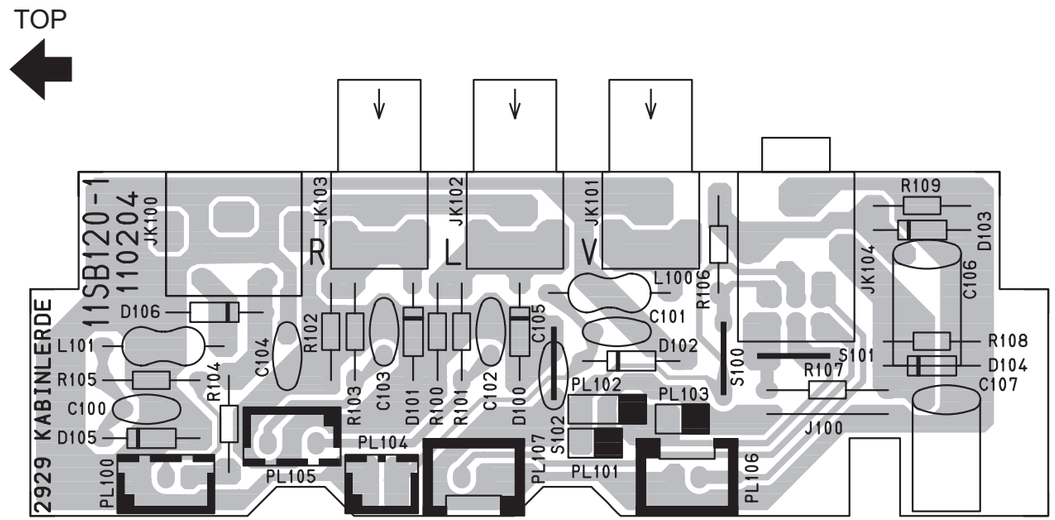
CRT SOCKET PWB PATTERN



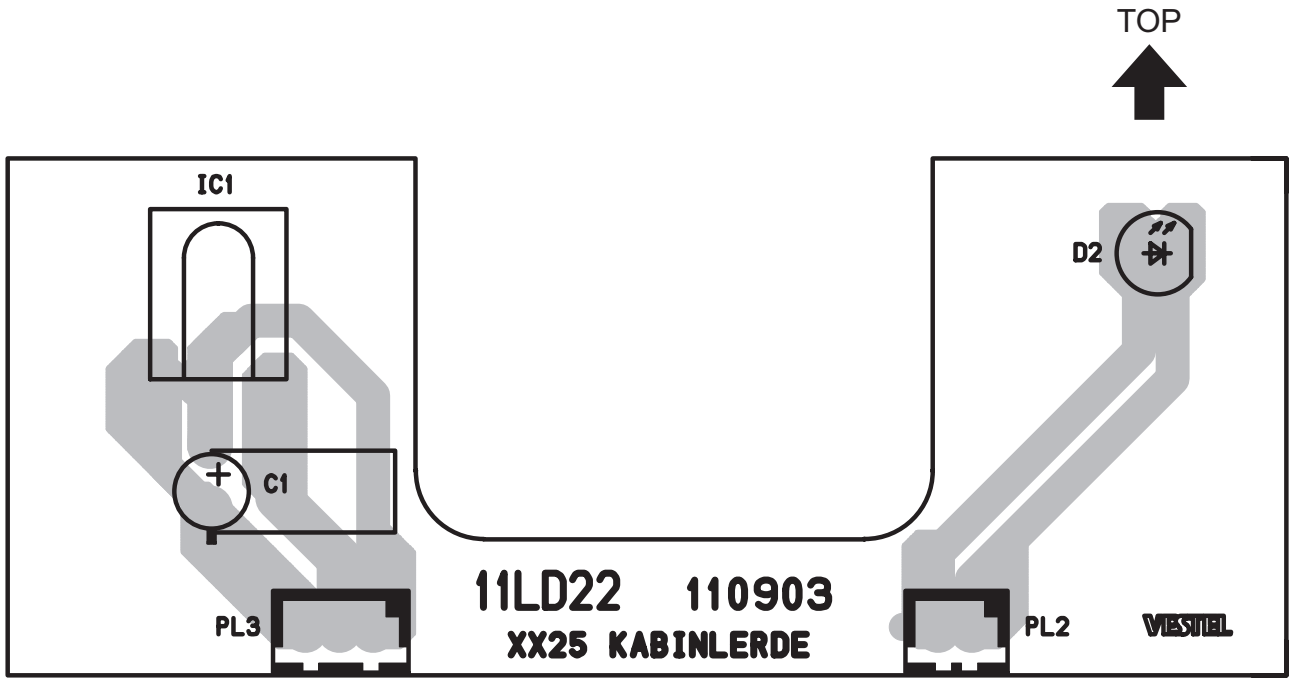
SIDE CONTROL SOCKET PWB PATTERN



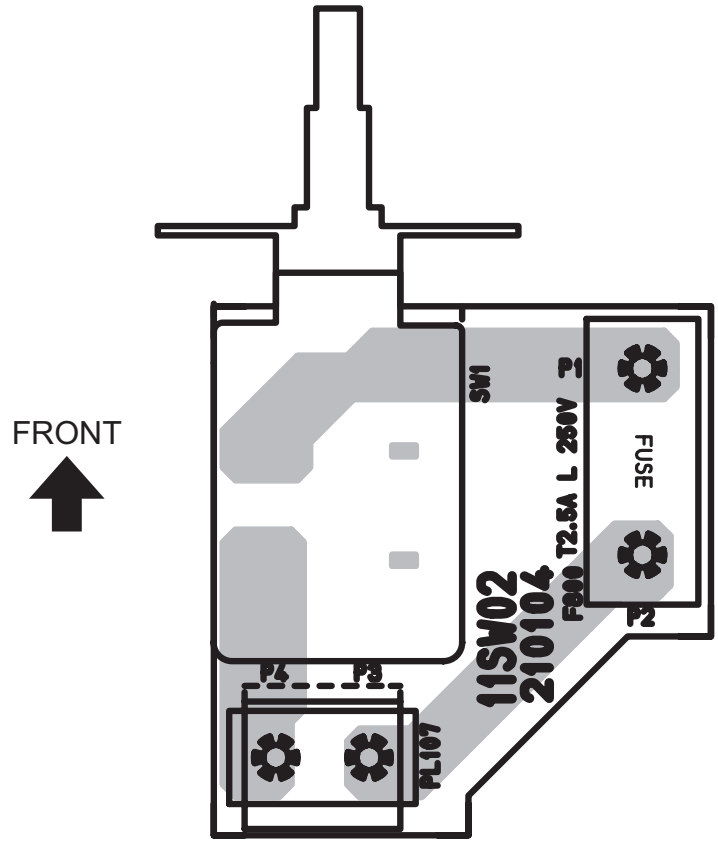
AV & HEADPHONE SOCKET PWB PATTERN



LED PWB PATTERN



POWER PWB PATTERN



PARTS LIST

CONTENTS

USING P.W. BOARD & REMOTE CONTROL UNIT 3-1
EXPLODED VIEW PARTS LIST 3-1
EXPLODED VIEW 3-2

PRINTED WIRING BOARD PARTS LIST 3-4
MAIN P.W. BOARD ASS'Y (VE-20159762) 3-4
FEATURE P.W. BOARD ASS'Y (VE-20159754) 3-7
CRT SOCKET P.W. BOARD ASS'Y (VE-20171200) 3-9
AV &HEADPHONE P.W. BOARD ASS'Y (VE-20169086) 3-10
POWER SWITCH P.W. BOARD ASS'Y (VE-20160993) 3-10
SIDE CONTROL P.W. BOARD ASS'Y (VE-20160920) 3-10
LED P.W. BOARD ASS'Y (VE-20167318) 3-10

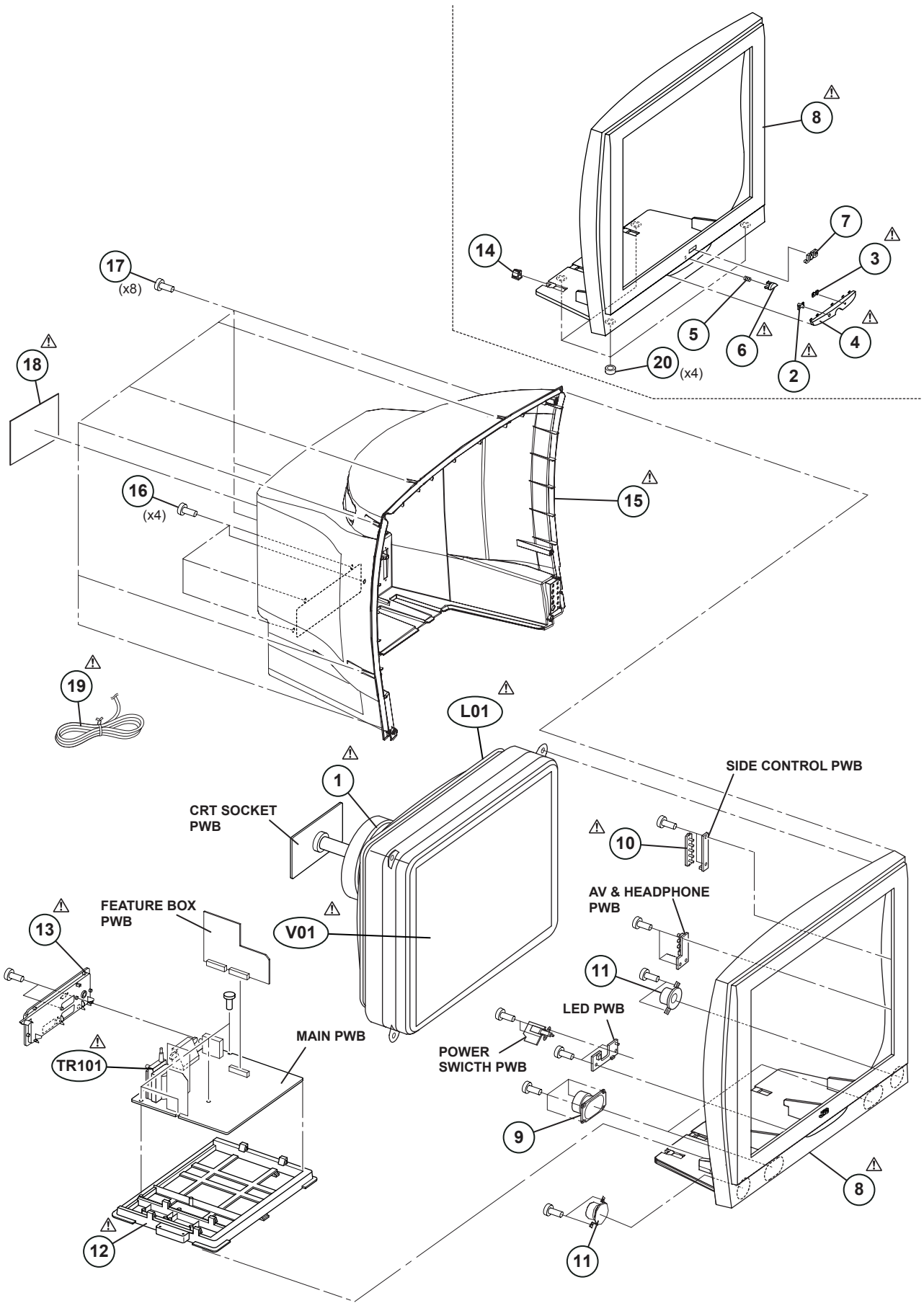
PACKING 3-11
PACKING PARTS LIST 3-11

USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	AV-29QH4BU	AV-29QH4SU
MAIN P.W.B	VE-20159762	←
FEATURE BOX P.W.B	VE-20159754	←
CRT SOCKET P.W.B	VE-20171200	←
AV & HEADHPONE P.W.B	VE-20169086	←
POWER SWITCH P.W.B	VE-20160993	←
SIDE CONTROL P.W.B	VE-20160920	←
LED P.W.B	VE-20167318	←
REMOTE CONTROL UNIT	VE-30021286 (RM-C1512B)	VE-30021287 (RM-C1512S)

EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	VE-30009836	PICTURE TUBE(ITC)	Inc.DY,PC MAGNET	
⚠	L01	VE-30012971	DEG COIL		
⚠	TR101	VE-30017521	FBT	within MAIN PWB	
⚠	1	VE-30015231	ROTATION COIL		
⚠	2	VE-20153721	LENS PRE-AMP		
⚠	3	VE-20153568	LED (LENS)		
⚠	4	VE-20153720	LENS		AV-29QH4BU
⚠	4	VE-20175570	LENS		AV-29QH4SU
	5	VE-35000020	SPRING		
⚠	6	VE-20153719	BUTTON		AV-29QH4BU
⚠	6	VE-20161162	BUTTON		AV-29QH4SU
	7	VE-40021550	LOGO JVC		AV-29QH4BU
	7	VE-40021572	LOGO JVC		AV-29QH4SU
⚠	8	VE-20173540	FRONT CABINET		AV-29QH4BU
⚠	8	VE-20169089	FRONT CABINET		AV-29QH4SU
	9	VE-30024903	SPEAKER 8Ω 5W	(X2)	
⚠	10	VE-20153565	BUTTON (FUNCTION)		AV-29QH4BU
⚠	10	VE-20161160	BUTTON (FUNCTION)		AV-29QH4SU
	11	VE-30024912	TWEETER (8Ω 8W)	(X2)	
⚠	12	VE-20090585	CHASSIS FRAME		
⚠	13	VE-20168677	BACK DOOR(TERMINAL BOARD)		AV-29QH4BU
⚠	13	VE-20172453	BACK DOOR(TERMINAL BOARD)		AV-29QH4SU
	14	VE-20004520	CABLE HOLDER		
⚠	15	VE-20153691	REAR COVER		AV-29QH4BU
⚠	15	VE-20170313	REAR COVER		AV-29QH4SU
	16	VE-35008081	SCREW (3X9.5)	(X4)	
	17	VE-35004572	SCREW (4X20)	(X8)	AV-29QH4BU
	17	VE-35010702	SCREW (4X20)	(X8)	AV-29QH4SU
⚠	18	VE-20162887	LABEL		AV-29QH4BU
⚠	18	VE-20162892	LABEL		AV-29QH4SU
⚠	19	VE-30016513	POWER CORD		
	20	VE-40000082	FOOT RUBBER	(X4)	


8
7
3
14
17
(x8)
5
6
4
2
20
(x4)
18
16
(x4)
15
19
L01
1
CRT SOCKET
PWB
SIDE CONTROL PWB
10
AV & HEADPHONE
PWB
FEATURE BOX
PWB
13
V01
11
LED PWB
MAIN PWB
TR101
POWER
SWICTH PWB
9
8
12
11

PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (VE-20159762)

⚠Ref No.	Part No.	Part Name	Description	Local
IC100	VE-30013687	IC		
IC105	VE-30001665	IC		
IC401	VE-30018422	IC		
IC402	VE-30018422	IC		
⚠IC801	VE-30015087	IC		
IC803	VE-30001500	IC		
IC804	VE-30011968	IC		
IC812	VE-30019617	IC		
IC954	VE-30021083	IC		
Q116	VE-30023137	IC		
Q815	VE-30023137	IC		
Q816	VE-30023137	IC		
Q100	VE-30018627	TRANSISTOR		
⚠Q101	VE-30016686	TRANSISTOR	H.OUT	
Q102	VE-30001458	TRANSISTOR		
Q103	VE-30001458	TRANSISTOR		
Q104	VE-30007799	TRANSISTOR		
Q105	VE-30001454	TRANSISTOR		
Q106	VE-30001458	TRANSISTOR		
Q107	VE-30001452	TRANSISTOR		
Q108	VE-30001457	TRANSISTOR		
Q109	VE-30001452	TRANSISTOR		
Q110	VE-30001453	TRANSISTOR		
Q111	VE-30001453	TRANSISTOR		
Q112	VE-30001457	TRANSISTOR		
Q113	VE-30001457	TRANSISTOR		
Q114	VE-30001457	TRANSISTOR		
Q115	VE-30001458	TRANSISTOR		
Q117	VE-30001458	TRANSISTOR		
Q200	VE-30001457	TRANSISTOR		
Q400	VE-30001458	TRANSISTOR		
Q801	VE-30001454	TRANSISTOR		
Q802	VE-30001386	TRANSISTOR		
Q803	VE-30001454	TRANSISTOR		
Q804	VE-30001457	TRANSISTOR		
Q805	VE-30001454	TRANSISTOR		
Q806	VE-30001428	TRANSISTOR		
Q807	VE-30001457	TRANSISTOR		
Q808	VE-30001457	TRANSISTOR		
Q810	VE-30001454	TRANSISTOR		
Q811	VE-30001457	TRANSISTOR		
Q812	VE-30001458	TRANSISTOR		
Q813	VE-30007802	TRANSISTOR		
Q814	VE-30001455	TRANSISTOR		
Q817	VE-30001384	TRANSISTOR		
Q818	VE-30010149	TRANSISTOR		
Q950	VE-30001457	TRANSISTOR		
Q952	VE-30001457	TRANSISTOR		
D100	VE-30001291	DIODE		
D102	VE-30007760	SMD ZENER DIODE		
D103	VE-30007763	SMD ZENER DIODE		
D104	VE-30007678	DIODE		
D105	VE-30007768	DIODE		
D106	VE-30001291	DIODE		
D107	VE-30001291	DIODE		
D108	VE-30001299	DIODE		
D109	VE-30001299	DIODE		
D110	VE-30001291	DIODE		
D111	VE-30001288	DIODE		
D112	VE-30007763	SMD ZENER DIODE		
D113	VE-30001377	ZENER DIODE		
D114	VE-30001285	SMD DIODE		
D117	VE-30001285	SMD DIODE		
D118	VE-30001285	SMD DIODE		
D119	VE-30001285	SMD DIODE		
D120	VE-30001318	DIODE		
D121	VE-30009699	SMD ZENER DIODE		
D122	VE-30009699	SMD ZENER DIODE		
D123	VE-30001318	DIODE		
D124	VE-30009699	SMD ZENER DIODE		
D125	VE-30001291	DIODE		
D127	VE-30001285	SMD DIODE		
D128	VE-30001285	SMD DIODE		
D201	VE-30007763	SMD ZENER DIODE		
D202	VE-30009699	SMD ZENER DIODE		
D203	VE-30009699	SMD ZENER DIODE		
D204	VE-30018735	SMD ZENER DIODE		
D205	VE-30018735	SMD ZENER DIODE		
D404	VE-30001284	DIODE		
D801	VE-30001318	DIODE		

⚠Ref No.	Part No.	Part Name	Description	Local
D802	VE-30001323	DIODE		
D803	VE-30009366	DIODE		
D804	VE-30009366	DIODE		
D806	VE-30001344	ZENER DIODE		
D807	VE-30001285	SMD DIODE		
D808	VE-30001288	DIODE		
D809	VE-30001285	SMD DIODE		
⚠D810	VE-20108354	BRIDGE DIODE		
D811	VE-30009366	DIODE		
D812	VE-30001329	DIODE		
D813	VE-30006691	ZENER DIODE		
D814	VE-30001318	DIODE		
D815	VE-30001318	DIODE		
D818	VE-30001318	DIODE		
D819	VE-30001285	SMD DIODE		
D820	VE-30001285	SMD DIODE		
D821	VE-30001285	SMD DIODE		
D822	VE-30009699	SMD ZENER DIODE		
D823	VE-30001285	SMD DIODE		
D824	VE-30009366	DIODE		
D826	VE-30001284	DIODE		
D827	VE-30007763	SMD ZENER DIODE		
D829	VE-30001318	DIODE		
D830	VE-30001285	SMD DIODE		
D831	VE-30001329	DIODE		
D951	VE-30001285	SMD DIODE		
D961	VE-30012411	SMD DIODE		
D962	VE-30001285	SMD DIODE		
D963	VE-30001285	SMD DIODE		
C100	VE-30000294	SMD CAPACITOR	100NF 50V K	
C101	VE-30000353	EL CAPACITOR	100UF 25V M	
C102	VE-30010517	MKT CAPACITOR	33NF 100V K	
C104	VE-30000345	EL CAPACITOR	10UF 50V M	
C105	VE-30012590	SMD CAPACITOR	47NF 50V K	
C106	VE-30000362	EL CAPACITOR	1UF 50V M.	
C107	VE-30000346	EL CAPACITOR	10UF 100V M	
C108	VE-30012581	SMD CAPACITOR	1NF 50V K R	
⚠C109	VE-30000143	MKP CAPACITOR	2.2NF 2000V %3.5	
⚠C110	VE-30007100	MKP CAPACITOR	10NF 1600V %3.5	
⚠C111	VE-30012003	MKP CAPACITOR	18NF 630V J	
⚠C112	VE-30000177	MKP CAPACITOR	820NF 250V J	
C113	VE-30000415	EL CAPACITOR	4.7UF 250V M	
⚠C114	VE-30000162	MKP CAPACITOR	470NF 250V J	
C115	VE-30006909	EL CAPACITOR	100UF M 250V	
C116	VE-30000431	CER CAPACITOR	100PF 1KV M	
C117	VE-30000350	EL CAPACITOR	10UF 250V M.	
C119	VE-30000402	EL CAPACITOR	47UF 100V M	
C120	VE-30000360	EL CAPACITOR	1000UF 25V M.	
C123	VE-30000302	CER CAPACITOR	1.8NF 50V KB	
C124	VE-30000360	EL CAPACITOR	1000UF 25V M.	
C125	VE-30000294	SMD CAPACITOR	100NF 50V K	
C126	VE-30000294	SMD CAPACITOR	100NF 50V K	
C128	VE-30000296	CER CAPACITOR	100NF 100V Z F	
C129	VE-30000092	MKT CAPACITOR	220NF 63V J	
C130	VE-30000302	CER CAPACITOR	1.8NF 50V KB	
C131	VE-30000283	CER CAPACITOR	1NF 50V K B	
C132	VE-30000078	MKT CAPACITOR	1UF 100V M	
C133	VE-30000353	EL CAPACITOR	100UF 25V M	
C134	VE-30000393	EL CAPACITOR	3.3UF 50V M	
C135	VE-30019641	MKT CAPACITOR	100NF 100V J	
C136	VE-30000353	EL CAPACITOR	100UF 25V M	
C137	VE-30000294	SMD CAPACITOR	100NF 50V K	
C138	VE-30000294	SMD CAPACITOR	100NF 50V K	
C139	VE-30000400	EL CAPACITOR	47UF 50V M	
C140	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C141	VE-30000415	EL CAPACITOR	4.7UF 250V M	
C142	VE-30019641	MKT CAPACITOR	100NF 100V J NO-HIT	
C145	VE-30000286	CER CAPACITOR	1NF 500V K B	
C146	VE-30000296	CER CAPACITOR	100NF 100V Z F	
C148	VE-30000296	CER CAPACITOR	100NF 100V Z F	
C210	VE-30000345	EL CAPACITOR	10UF 50V M	
C212	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C233	VE-30012592	SMD CAPACITOR	6.8NF 50V K	
C235	VE-30012592	SMD CAPACITOR	6.8NF 50V K	
C236	VE-30012592	SMD CAPACITOR	6.8NF 50V K	
C237	VE-30012592	SMD CAPACITOR	6.8NF 50V K	
C239	VE-30012607	SMD CAPACITOR	150PF 50V J	
C240	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C241	VE-30012607	SMD CAPACITOR	150PF 50V J	
C243	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C244	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C245	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C246	VE-30012607	SMD CAPACITOR	150PF 50V J	

⚠Ref No.	Part No.	Part Name	Description	Local
C247	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C248	VE-30012607	SMD CAPACITOR	150PF 50V J	
C249	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C250	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C251	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C252	VE-30012607	SMD CAPACITOR	150PF 50V J	
C253	VE-30012607	SMD CAPACITOR	150PF 50V J	
C256	VE-30012607	SMD CAPACITOR	150PF 50V J	
C261	VE-30012607	SMD CAPACITOR	150PF 50V J	
C262	VE-30012607	SMD CAPACITOR	150PF 50V J	
C263	VE-30012607	SMD CAPACITOR	150PF 50V J	
C266	VE-30012607	SMD CAPACITOR	150PF 50V J	
C267	VE-30012607	SMD CAPACITOR	150PF 50V J	
C301	VE-30000284	SMD CAPACITOR	1NF 50V K R	
C307	VE-30012607	SMD CAPACITOR	150PF 50V J	
C308	VE-30012607	SMD CAPACITOR	150PF 50V J	
C309	VE-30012607	SMD CAPACITOR	150PF 50V J	
C310	VE-30012607	SMD CAPACITOR	150PF 50V J	
C405	VE-30000071	MKT CAPACITOR	10NF 63V J	
C406	VE-30012568	SMD CAPACITOR	270PF 50V J	
C407	VE-30012585	SMD CAPACITOR	2.2NF 50V K R	
C408	VE-30000100	MKT CAPACITOR	330NF 63V J	
C409	VE-30000295	CER CAPACITOR	100NF 50V Z F	
C410	VE-30000295	CER CAPACITOR	100NF 50V Z F	
C411	VE-30000100	MKT CAPACITOR	330NF 63V J	
C419	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C420	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C421	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C423	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C424	VE-30000383	EL CAPACITOR	2200UF 25V M.	
C426	VE-30012568	SMD CAPACITOR	270PF 50V J	
C427	VE-30012585	SMD CAPACITOR	2.2NF 50V K R	
C428	VE-30000100	MKT CAPACITOR	330NF 63V J	
C429	VE-30000295	CER CAPACITOR	100NF 50V Z F	
C430	VE-30000295	CER CAPACITOR	100NF 50V Z F	
C431	VE-30000100	MKT CAPACITOR	330NF 63V J	
C432	VE-30000383	EL CAPACITOR	2200UF 25V M.	
C433	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C455	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C456	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C458	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C462	VE-30000353	EL CAPACITOR	100UF 25V M	
C463	VE-30000353	EL CAPACITOR	100UF 25V M	
C464	VE-30000353	EL CAPACITOR	100UF 25V M	
C465	VE-30000353	EL CAPACITOR	100UF 25V M	
C466	VE-30000071	MKT CAPACITOR	10NF 63V J	
C467	VE-30012560	SMD CAPACITOR	100PF 50V J	
C468	VE-30000352	EL CAPACITOR	100UF 16V M	
C469	VE-30000069	MKT CAPACITOR	1NF 100V J	
C470	VE-30000069	MKT CAPACITOR	1NF 100V J	
C472	VE-30000069	MKT CAPACITOR	1NF 100V J	
C473	VE-30000069	MKT CAPACITOR	1NF 100V J	
⚠C801	VE-30000094	MKT CAPACITOR	220NF 275V M AC	
⚠C802	VE-30000094	MKT CAPACITOR	220NF 275V M AC	
C803	VE-30000294	SMD CAPACITOR	100NF 50V K	
C804	VE-30000387	EL CAPACITOR	33UF 50V M	
⚠C805	VE-30000161	MKP CAPACITOR	47NF 630V J	
C806	VE-30007308	CER CAPACITOR	220PF 1KV K	
C807	VE-30000421	EL CAPACITOR	220UF 400V M	
C808	VE-30000319	CER CAPACITOR	2.7NF 500V K B	
C809	VE-30009208	CER CAPACITOR	470PF 1KV K	
⚠C810	VE-30000440	CER CAPACITOR	2.2NF 4KV M	
C811	VE-30000309	SMD CAPACITOR	2.2NF 50V K R	
C812	VE-30000099	MKT CAPACITOR	33NF 63V J	
C813	VE-30007308	CER CAPACITOR	220PF 1KV K	
C814	VE-30007308	CER CAPACITOR	220PF 1KV K	
C815	VE-30007308	CER CAPACITOR	220PF 1KV K	
C816	VE-30006909	EL CAPACITOR	100UF M 250V	
C817	VE-30000294	SMD CAPACITOR	100NF 50V K	
C818	VE-30000294	SMD CAPACITOR	100NF 50V K	
C821	VE-30000383	EL CAPACITOR	2200UF 25V M.	
C822	VE-30000383	EL CAPACITOR	2200UF 25V M.	
C823	VE-30000294	SMD CAPACITOR	100NF 50V K	
C824	VE-30000295	CER CAPACITOR	100NF 50V Z F	
C825	VE-30000360	EL CAPACITOR	1000UF 25V M.	
C826	VE-30000360	EL CAPACITOR	1000UF 25V M.	
C827	VE-30000294	SMD CAPACITOR	100NF 50V K	
C828	VE-30000400	EL CAPACITOR	47UF 50V M	
C831	VE-30000295	CER CAPACITOR	100NF 50V Z F	
C834	VE-30000411	EL CAPACITOR	4700UF 16V M	
C837	VE-30000367	EL CAPACITOR	1UF 250V M	
C839	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C840	VE-30000352	EL CAPACITOR	100UF 16V M	
C842	VE-30000360	EL CAPACITOR	1000UF 25V M.	
C843	VE-30000433	CER CAPACITOR	1NF 1KV M B	
C845	VE-30000393	EL CAPACITOR	3.3UF 50V M	
C846	VE-30000294	SMD CAPACITOR	100NF 50V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C848	VE-30016654	SMD CAPACITOR	100NF 16V K R	
⚠C850	VE-30000440	CER CAPACITOR	2.2NF 4KV M	
C851	VE-30000360	EL CAPACITOR	1000UF 25V M.	
C852	VE-30012567	SMD CAPACITOR	220PF 50V J	
C853	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C856	VE-30000352	EL CAPACITOR	100UF 16V M	
C857	VE-30000375	EL CAPACITOR	220UF 16V M	
C858	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C859	VE-30000294	SMD CAPACITOR	100NF 50V K	
C861	VE-30000075	MKT CAPACITOR	100NF 250V K (DC)	
C862	VE-30000367	EL CAPACITOR	1UF 250V M	
C864	VE-30000190	CER CAPACITOR	100PF 50V J CH	
C867	VE-30012574	SMD CAPACITOR	470PF 50V J	
C950	VE-30012560	SMD CAPACITOR	100PF 50V J	
C951	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C952	VE-30012569	SMD CAPACITOR	33PF 50V J	
C953	VE-30000345	EL CAPACITOR	10UF 50V M	
C954	VE-30000345	EL CAPACITOR	10UF 50V M	
C955	VE-30012569	SMD CAPACITOR	33PF 50V J	
C956	VE-30000400	EL CAPACITOR	47UF 50V M	
C958	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C959	VE-30012569	SMD CAPACITOR	33PF 50V J	
C960	VE-30012569	SMD CAPACITOR	33PF 50V J	
C961	VE-30012582	SMD CAPACITOR	10NF 50V K R	
C962	VE-30012572	SMD CAPACITOR	390PF 50V J	
C963	VE-30000109	MKT CAPACITOR	470NF 63V J	
C964	VE-30012610	SMD CAPACITOR	10NF 50V J	
C965	VE-30012566	SMD CAPACITOR	22PF 50V J	
C966	VE-30000109	MKT CAPACITOR	470NF 63V J	
C967	VE-30016126	SMD CAPACITOR	220NF 16V K R	
C968	VE-30012583	SMD CAPACITOR	1.5NF 50V K	
C969	VE-30012582	SMD CAPACITOR	10NF 50V K R	
C970	VE-30000345	EL CAPACITOR	10UF 50V M	
C972	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C994	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C996	VE-30016126	SMD CAPACITOR	220NF 16V K R	
C1006	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C1007	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C1011	VE-30000352	EL CAPACITOR	100UF 16V M	
⚠R870	VE-30018085	VAR CAPACITOR	510V K	
⚠R871	VE-30018085	VAR CAPACITOR	510V K	
R1006	VE-30012714	SMD RESISTOR	1/16W 820R J	
R1009	VE-30014022	SMD RESISTOR	1/16W 47R J	
R101	VE-30001113	MO RESISTOR	4W 180R J	
R102	VE-30000529	SMD RESISTOR	1/10W 1.5K J	
R103	VE-30001132	MO RESISTOR	2W 0.22R J	
R104	VE-30001079	MO RESISTOR	1W 100R J	
R105	VE-30000583	CF RESISTOR	1/4W 220R J.	
R106	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R107	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R108	VE-30000593	SMD RESISTOR	1/10W 2.2K J	
R109	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R110	VE-30000718	CF RESISTOR	1/4W 4.7K J.	
R111	VE-30012662	SMD RESISTOR	1/16W 2.7K J	
R112	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R113	VE-30012648	SMD RESISTOR	1/16W 150K J	
R115	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R116	VE-30007742	MO RESISTOR	5W 7.5K J	
R117	VE-30001168	MO RESISTOR	2W 470RJ	
R118	VE-30000466	CF RESISTOR	1/4W 1K J.	
R119	VE-30012641	SMD RESISTOR	1/16W 10K J	
R120	VE-30012696	SMD RESISTOR	1/16W 47K J	
R121	VE-30000918	MF RESISTOR	1/4W 2.1K F	
⚠R122	VE-30001190	MO RESISTOR	2W 68R J	
R123	VE-30001036	MF RESISTOR	1/4W 95K F	
⚠R124	VE-30001244	FUSE RESISTOR	1/2W 0.47R J	
⚠R125	VE-30009036	FUSE RESISTOR	1/2W 0.1R J	
R126	VE-30000564	CF RESISTOR	1/4W 18K J.	
R127	VE-30000718	CF RESISTOR	1/4W 4.7K J.	
⚠R128	VE-30001217	FUSE RESISTOR	2W 1.2R J	
R129	VE-30000729	CF RESISTOR	1/4W 470K J	
⚠R130	VE-30001229	FUSE RESISTOR	1W 2.2R J	
R131	VE-30000631	SMD RESISTOR	1/10W 2.7K J	
R132	VE-30012712	SMD RESISTOR	1/16W 8.2K J	
R136	VE-30000477	CF RESISTOR	1/4W 100K J.	
R137	VE-30007789	SMD RESISTOR	1/10W 27K F	
R138	VE-30000636	SMD RESISTOR	1/10W 27K J	
R139	VE-30001134	MO RESISTOR	2W 2.2R J	
R140	VE-30001124	MO RESISTOR	3W 220R J	
R141	VE-30001174	MO RESISTOR	2W 0.47R J	
R142	VE-30001011	MF RESISTOR	1/4W 6.8K F	
R143	VE-30001011	MF RESISTOR	1/4W 6.8K F	
R145	VE-30001077	MO RESISTOR	2W 10R J	
R146	VE-30000541	CF RESISTOR	1/4W 1.5M J	
R147	VE-30000744	CF RESISTOR	1/4W 560R J	
R148	VE-30000475	SMD RESISTOR	1/10W 10K J	

⚠Ref No.	Part No.	Part Name	Description	Local
R149	VE-30000660	CF RESISTOR	1/4W 3.3K J.	
R150	VE-30012665	SMD RESISTOR	1/16W 20K J	
R151	VE-30012641	SMD RESISTOR	1/16W 10K J	
R152	VE-30012689	SMD RESISTOR	1/16W 39K J	
R153	VE-30012673	SMD RESISTOR	1/16W 270R J	
R154	VE-30012673	SMD RESISTOR	1/16W 270R J	
R155	VE-30000784	CF RESISTOR	1/4W 680K J	
R156	VE-30001036	MF RESISTOR	1/4W 95K F	
R157	VE-30000477	CF RESISTOR	1/4W 100K J.	
R158	VE-30012641	SMD RESISTOR	1/16W 10K J	
R159	VE-30000721	SMD RESISTOR	1/10W 4.7K J	
R160	VE-30000721	SMD RESISTOR	1/10W 4.7K J	
R161	VE-30000475	SMD RESISTOR	1/10W 10K J	
R162	VE-30000721	SMD RESISTOR	1/10W 4.7K J	
R163	VE-30010560	SMD CAPACITOR	220NF 25V K R	
R165	VE-30000622	CF RESISTOR	1/4W 270R J	
R166	VE-30000529	SMD RESISTOR	1/10W 1.5K J	
R168	VE-30012657	SMD RESISTOR	1/16W 1K J	
R169	VE-30000572	CF RESISTOR	1/4W 2K J	
R171	VE-30000626	SMD RESISTOR	1/10W 270R J	
R179	VE-30000649	CF RESISTOR	1/2W 33R J.	
R180	VE-30001077	MO RESISTOR	2W 10R J	
⚠R183	VE-30001242	FUSE RESISTOR	1/4W 47R J	
R185	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R186	VE-30000531	CF RESISTOR	1/4W 15K J.	
R187	VE-30012506	SMD RESISTOR	1/16W 1.5K J	
R205	VE-30014022	SMD RESISTOR	1/16W 47R J	
R207	VE-30014420	SMD RESISTOR	1/16W 10K F	
R215	VE-30012707	SMD RESISTOR	1/16W 680R J	
R216	VE-30012707	SMD RESISTOR	1/16W 680R J	
R217	VE-30012707	SMD RESISTOR	1/16W 680R J	
R218	VE-30012707	SMD RESISTOR	1/16W 680R J	
R403	VE-30012682	SMD RESISTOR	1/16W 30K J	
R406	VE-30012691	SMD RESISTOR	1/16W 4.3K J	
R409	VE-30012712	SMD RESISTOR	1/16W 8.2K J	
R415	VE-30014420	SMD RESISTOR	1/16W 10K F	
R417	VE-30012712	SMD RESISTOR	1/16W 8.2K J	
R418	VE-30012698	SMD RESISTOR	1/16W 5.6K J	
R422	VE-30012677	SMD RESISTOR	1/16W 3.3K J	
R424	VE-30012657	SMD RESISTOR	1/16W 1K J	
R429	VE-30000515	CF RESISTOR	1/4W 15R J.	
R430	VE-30012657	SMD RESISTOR	1/16W 1K J	
R431	VE-30012657	SMD RESISTOR	1/16W 1K J	
R436	VE-30012712	SMD RESISTOR	1/16W 8.2K J	
R802	VE-30000718	CF RESISTOR	1/4W 4.7K J.	
R803	VE-30000593	SMD RESISTOR	1/10W 2.2K J	
R804	VE-30000481	CF RESISTOR	1/4W 1M J.	
R805	VE-30000983	MF RESISTOR	1/4W 4.7K F	
R806	VE-30000452	CF RESISTOR	1/4W 10R J.	
R807	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R808	VE-30012641	SMD RESISTOR	1/16W 10K J	
R809	VE-30010205	MO RESISTOR	5W 39K J (RADIAL)	
R810	VE-30001159	MO RESISTOR	1W 0.33R J	
⚠R812	VE-30001257	MG RESISTOR	1/2W 4.7M J	
R813	VE-30000710	SMD RESISTOR	1/10W 47R J	
R814	VE-30013199	SMD RESISTOR	1/10W 2.4K F	
R815	VE-30012510	SMD RESISTOR	1/16W 100R J	
R818	VE-30025723	SMD RESISTOR	1/10W 68K F	
R819	VE-30012641	SMD RESISTOR	1/16W 10K J	
R820	VE-30000526	CF RESISTOR	1/4W 1.5K J.	
R821	VE-30000526	CF RESISTOR	1/4W 1.5K J.	
R822	VE-30012641	SMD RESISTOR	1/16W 10K J	
R823	VE-30000718	CF RESISTOR	1/4W 4.7K J.	
R824	VE-30000718	CF RESISTOR	1/4W 4.7K J.	
R825	VE-30012641	SMD RESISTOR	1/16W 10K J	
R827	VE-30000469	SMD RESISTOR	1/10W 1K J	
R828	VE-30001174	MO RESISTOR	2W 0.47R J	
R829	VE-30000477	CF RESISTOR	1/4W 100K J.	
R830	VE-30000475	SMD RESISTOR	1/10W 10K J	
R831	VE-30007026	SMD RESISTOR	1/10W 5.1K J	
R832	VE-30000466	CF RESISTOR	1/4W 1K J.	
R833	VE-30001174	MO RESISTOR	2W 0.47R J	
R834	VE-30000469	SMD RESISTOR	1/10W 1K J	
R835	VE-30000475	SMD RESISTOR	1/10W 10K J	
R836	VE-30000593	SMD RESISTOR	1/10W 2.2K J	
R837	VE-30000503	SMD RESISTOR	1/10W 12K J	
R838	VE-30000517	SMD RESISTOR	1/10W 15R J	
R839	VE-30012641	SMD RESISTOR	1/16W 10K J	
R840	VE-30012641	SMD RESISTOR	1/16W 10K J	
R841	VE-30012657	SMD RESISTOR	1/16W 1K J	
R842	VE-30012641	SMD RESISTOR	1/16W 10K J	
R843	VE-30000466	CF RESISTOR	1/4W 1K J.	
R845	VE-30012695	SMD RESISTOR	1/16W 470R J	
R847	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R848	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R849	VE-30012641	SMD RESISTOR	1/16W 10K J	
R850	VE-30000469	SMD RESISTOR	1/10W 1K J	
R851	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R852	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R853	VE-30012641	SMD RESISTOR	1/16W 10K J	
R854	VE-30012657	SMD RESISTOR	1/16W 1K J	
R855	VE-30000933	MF RESISTOR	1/4W 2.4K F	
R856	VE-30000913	MF RESISTOR	1/4W 2K J	
R859	VE-30012657	SMD RESISTOR	1/16W 1K J	
R860	VE-30000718	CF RESISTOR	1/4W 4.7K J.	
R861	VE-30012641	SMD RESISTOR	1/16W 10K J	
R862	VE-30012641	SMD RESISTOR	1/16W 10K J	
R863	VE-30012657	SMD RESISTOR	1/16W 1K J	
R864	VE-30012695	SMD RESISTOR	1/16W 470R J	
R866	VE-30000660	CF RESISTOR	1/4W 3.3K J.	
R867	VE-30012689	SMD RESISTOR	1/16W 39K J	
R868	VE-30025723	SMD RESISTOR	1/10W 68K F	
R922	VE-30012705	SMD RESISTOR	1/16W 6.8K J	
R951	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R952	VE-30000459	CF RESISTOR	1/4W 100R J.	
R953	VE-30012510	SMD RESISTOR	1/16W 100R J	
R954	VE-30000459	CF RESISTOR	1/4W 100R J.	
R955	VE-30012510	SMD RESISTOR	1/16W 100R J	
R958	VE-30012698	SMD RESISTOR	1/16W 5.6K J	
R960	VE-30012685	SMD RESISTOR	1/16W 33K J	
R961	VE-30012705	SMD RESISTOR	1/16W 6.8K J	
R962	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R963	VE-30012657	SMD RESISTOR	1/16W 1K J	
R964	VE-30012510	SMD RESISTOR	1/16W 100R J	
R965	VE-30012705	SMD RESISTOR	1/16W 6.8K J	
R966	VE-30012644	SMD RESISTOR	1/16W 12K J	
R967	VE-30012696	SMD RESISTOR	1/16W 47K J	
R968	VE-30012684	SMD RESISTOR	1/16W 330R J	
R970	VE-30010643	SMD RESISTOR	1/10W 39R J	
R972	VE-30012669	SMD RESISTOR	1/16W 22K J	
R973	VE-30012669	SMD RESISTOR	1/16W 22K J	
R993	VE-30012695	SMD RESISTOR	1/16W 470R J	
R994	VE-30012668	SMD RESISTOR	1/16W 220R J	
R995	VE-30000459	CF RESISTOR	1/4W 100R J.	
R997	VE-30014022	SMD RESISTOR	1/16W 47R J	
R998	VE-30000792	CF RESISTOR	1/4W 75R J	
S408	VE-30012982	SMD RESISTOR	1/16W 10R J	
S409	VE-30012982	SMD RESISTOR	1/16W 10R J	
S802	VE-30012657	SMD RESISTOR	1/16W 1K J	
VR801	VE-30001064	ADJ RESISTOR	1/10W 470R VER (MAN)	
L100	VE-30007771	FIXED COIL	100UH	
L101	VE-30007757	EW INJECTION COIL	6MHz	
L103	VE-30018304	LINEARTY COIL	6.6uH	
L104	VE-30030583	BRIDGE COIL	300UH	
L107	VE-30001996	FIXED COIL	22UH	
L108	VE-30001996	FIXED COIL	22UH	
L109	VE-30001996	FIXED COIL	22UH	
L413	VE-30019475	FIXED COIL	47UH	
L414	VE-30019475	FIXED COIL	47UH	
L803	VE-30001992	FIXED COIL	10UH	
L804	VE-30011450	FIXED COIL	22UH	
L809	VE-30018547	FIXED COIL	10UH	
L811	VE-30018547	FIXED COIL	10UH	
L951	VE-30001979	FIXED COIL	1UH	
⚠TR100	VE-30006743	HORIZONTAL DRIVER TRANSF		
⚠TR101	VE-30017521	FB TRANSF		
⚠TR801	VE-30019205	SMPS TRANSF		
J130	VE-30006712	FERRITE BEAD		
L105	VE-30006712	FERRITE BEAD		
L106	VE-30006712	FERRITE BEAD		
L213	VE-30013413	FERRITE BEAD		
L214	VE-30013413	FERRITE BEAD		
L215	VE-30013413	FERRITE BEAD		
L216	VE-30013413	FERRITE BEAD		
L217	VE-30013413	FERRITE BEAD		
L218	VE-30013413	FERRITE BEAD		
L219	VE-30013413	FERRITE BEAD		
L220	VE-30013413	FERRITE BEAD		
L417	VE-30006712	FERRITE BEAD		
L418	VE-30006712	FERRITE BEAD		
L421	VE-30006712	FERRITE BEAD		
L422	VE-30006712	FERRITE BEAD		
L802	VE-30001971	FERRITE BEAD		
⚠L805	VE-30018078	LINE FILTER		
L999	VE-30013413	FERRITE BEAD		
PL204	VE-30010921	DOUBLE-DECK SCART SOCKET		
⚠RL801	VE-30002183	RELAY		
⚠TH801	VE-30001270	PTC	9 OHM	
⚠TU200	VE-30009637	TUNER		
X951	VE-30002851	XTAL	4MHz	
Z950	VE-30001692	SAW FILTER		

⚠Ref No.	Part No.	Part Name	Description	Local
Z951	VE-30012545	SAW FILTER		

FEAUTER BOX P.W. BOARD ASS'Y (VE-20159754)

⚠Ref No.	Part No.	Part Name	Description	Local
IC400	VE-30018263	IC		
IC600	VE-30016690	IC		
IC601	VE-30007739	IC		
IC602	VE-30020835	IC		
IC604	VE-30007739	IC		
IC720	VE-20159755	IC	(MEMORY)	
IC751	VE-20173035	IC	(MICOM)	
IC752	VE-30013571	IC		
Q400	VE-30001458	TRANSISTOR		
Q401	VE-30001457	TRANSISTOR		
Q402	VE-30001457	TRANSISTOR		
Q403	VE-30001457	TRANSISTOR		
Q404	VE-30001457	TRANSISTOR		
Q408	VE-30001457	TRANSISTOR		
Q410	VE-30001457	TRANSISTOR		
Q411	VE-30001458	TRANSISTOR		
Q412	VE-30001458	TRANSISTOR		
Q601	VE-30001458	TRANSISTOR		
Q602	VE-30001457	TRANSISTOR		
Q603	VE-30001458	TRANSISTOR		
Q604	VE-30001458	TRANSISTOR		
Q605	VE-30001457	TRANSISTOR		
Q606	VE-30001457	TRANSISTOR		
Q607	VE-30001457	TRANSISTOR		
Q608	VE-30001458	TRANSISTOR		
Q609	VE-30001458	TRANSISTOR		
Q610	VE-30001458	TRANSISTOR		
Q611	VE-30001457	TRANSISTOR		
Q750	VE-30001457	TRANSISTOR		
Q751	VE-30001457	TRANSISTOR		
Q752	VE-30001457	TRANSISTOR		
Q753	VE-30001457	TRANSISTOR		
Q754	VE-30001457	TRANSISTOR		
Q755	VE-30001457	TRANSISTOR		
Q756	VE-30001457	TRANSISTOR		
Q757	VE-30001457	TRANSISTOR		
Q758	VE-30001457	TRANSISTOR		
Q759	VE-30001457	TRANSISTOR		
Q760	VE-30001458	TRANSISTOR		
Q761	VE-30001457	TRANSISTOR		
Q762	VE-30001457	TRANSISTOR		
Q763	VE-30001457	TRANSISTOR		
Q764	VE-30001457	TRANSISTOR		
Q765	VE-30001457	TRANSISTOR		
Q766	VE-30001458	TRANSISTOR		
D400	VE-30007761	SMD ZENER DIODE		
D401	VE-30001285	SMD DIODE		
D402	VE-30001285	SMD DIODE		
D403	VE-30001285	SMD DIODE		
D600	VE-30001285	SMD DIODE		
D601	VE-30001285	SMD DIODE		
D602	VE-30001285	SMD DIODE		
D603	VE-30001285	SMD DIODE		
D604	VE-30001285	SMD DIODE		
D605	VE-30001285	SMD DIODE		
D606	VE-30001285	SMD DIODE		
D607	VE-30001285	SMD DIODE		
D750	VE-30001285	SMD DIODE		
D751	VE-30020535	SMD ZENER DIODE		
D752	VE-30003720	SMD ZENER DIODE	5.6V	
C400	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C402	VE-30000352	EL CAPACITOR	100UF 16V M	
C404	VE-30012569	SMD CAPACITOR	33PF 50V J	
C405	VE-30012569	SMD CAPACITOR	33PF 50V J	
C406	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C407	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C408	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C409	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C410	VE-30012576	SMD CAPACITOR	56PF 50V J CH	
C411	VE-30016126	SMD CAPACITOR	220NF 16V K R	
C412	VE-30000393	EL CAPACITOR	3.3UF 50V M	
C413	VE-30000345	EL CAPACITOR	10UF 50V M	
C414	VE-30000345	EL CAPACITOR	10UF 50V M	
C415	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C416	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C417	VE-30012565	SMD CAPACITOR	1.8PF 50V J CH	
C418	VE-30012565	SMD CAPACITOR	1.8PF 50V J CH	
C419	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C420	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C421	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C422	VE-30012576	SMD CAPACITOR	56PF 50V J CH	
C423	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C424	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C425	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C436	VE-30000371	EL CAPACITOR	22UF 50V M	
C437	VE-30000371	EL CAPACITOR	22UF 50V M	
C438	VE-30000371	EL CAPACITOR	22UF 50V M	
C439	VE-30000371	EL CAPACITOR	22UF 50V M	
C440	VE-30012568	SMD CAPACITOR	270PF 50V J	
C441	VE-30012572	SMD CAPACITOR	390PF 50V J	
C444	VE-30012576	SMD CAPACITOR	56PF 50V J CH	
C445	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C446	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C447	VE-30000345	EL CAPACITOR	10UF 50V M	
C448	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C449	VE-30000345	EL CAPACITOR	10UF 50V M	
C450	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C451	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C452	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C453	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C454	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C455	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C456	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C457	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C459	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C462	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C463	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C468	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C469	VE-30000444	CER CAPACITOR	470PF 1KV KB	
C470	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C471	VE-30012589	SMD CAPACITOR	4.7NF 50V K	
C479	VE-30016126	SMD CAPACITOR	220NF 16V K R	
C485	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C486	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C487	VE-30000352	EL CAPACITOR	100UF 16V M	
C488	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C489	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C490	VE-30000352	EL CAPACITOR	100UF 16V M	
C600	VE-30012566	SMD CAPACITOR	22PF 50V J	
C601	VE-30012566	SMD CAPACITOR	22PF 50V J	
C602	VE-30012570	SMD CAPACITOR	330PF 50V J	
C603	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C604	VE-30012570	SMD CAPACITOR	330PF 50V J	
C605	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C606	VE-30012570	SMD CAPACITOR	330PF 50V J	
C607	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C608	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C609	VE-30000362	EL CAPACITOR	1UF 50V M.	
C610	VE-30012608	SMD CAPACITOR	27PF 50V J CH	
C611	VE-30012608	SMD CAPACITOR	27PF 50V J CH	
C612	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C613	VE-30016126	SMD CAPACITOR	220NF 16V K R	
C614	VE-30012559	SMD CAPACITOR	10PF 50V D COG .	
C615	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C616	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C617	VE-30012610	SMD CAPACITOR	10NF 50V J	
C618	VE-30012610	SMD CAPACITOR	10NF 50V J	
C619	VE-30012610	SMD CAPACITOR	10NF 50V J	
C620	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C621	VE-30012610	SMD CAPACITOR	10NF 50V J	
C622	VE-30012610	SMD CAPACITOR	10NF 50V J	
C623	VE-30012610	SMD CAPACITOR	10NF 50V J	
C624	VE-30000362	EL CAPACITOR	1UF 50V M.	
C625	VE-30000393	EL CAPACITOR	3.3UF 50V M	
C626	VE-30000362	EL CAPACITOR	1UF 50V M.	
C627	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C628	VE-30000359	EL CAPACITOR	1000UF 16V M.	
C629	VE-30012610	SMD CAPACITOR	10NF 50V J	
C630	VE-30012580	SMD CAPACITOR	820PF 50V J	
C631	VE-30000345	EL CAPACITOR	10UF 50V M	
C632	VE-30012610	SMD CAPACITOR	10NF 50V J	
C633	VE-30012580	SMD CAPACITOR	820PF 50V J	
C634	VE-30012580	SMD CAPACITOR	820PF 50V J	
C635	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C636	VE-30012581	SMD CAPACITOR	1NF 50V K R	
C637	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C638	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C639	VE-30016126	SMD CAPACITOR	220NF 16V K R	
C640	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C641	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C642	VE-30016654	SMD CAPACITOR	100NF 16V K R	

⚠Ref No.	Part No.	Part Name	Description	Local
C643	VE-30000345	EL CAPACITOR	10UF 50V M	
C644	VE-30000345	EL CAPACITOR	10UF 50V M	
C645	VE-30012610	SMD CAPACITOR	10NF 50V J	
C646	VE-30012602	SMD CAPACITOR	10NF 25V K R	
C647	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C648	VE-30012603	SMD CAPACITOR	100NF 25V K R	
C649	VE-30000345	EL CAPACITOR	10UF 50V M	
C650	VE-30012610	SMD CAPACITOR	10NF 50V J	
C651	VE-30000345	EL CAPACITOR	10UF 50V M	
C652	VE-30000345	EL CAPACITOR	10UF 50V M	
C653	VE-30012610	SMD CAPACITOR	10NF 50V J	
C654	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C655	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C658	VE-30000371	EL CAPACITOR	22UF 50V M	
C659	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C660	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C661	VE-30000371	EL CAPACITOR	22UF 50V M	
C662	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C663	VE-30012570	SMD CAPACITOR	330PF 50V J	
C664	VE-30012570	SMD CAPACITOR	330PF 50V J	
C665	VE-30012570	SMD CAPACITOR	330PF 50V J	
C667	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C668	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C669	VE-30000315	SMD CAPACITOR	220NF 25V Z	
C670	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C671	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C672	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C673	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C674	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C675	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C676	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C677	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C679	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C680	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C681	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C682	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C683	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C684	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C685	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C686	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C687	VE-30000345	EL CAPACITOR	10UF 50V M	
C688	VE-30000345	EL CAPACITOR	10UF 50V M	
C689	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C690	VE-30000345	EL CAPACITOR	10UF 50V M	
C695	VE-30000345	EL CAPACITOR	10UF 50V M	
C696	VE-30000345	EL CAPACITOR	10UF 50V M	
C697	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C698	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C699	VE-30000345	EL CAPACITOR	10UF 50V M	
C700	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C701	VE-30000352	EL CAPACITOR	100UF 16V M	
C709	VE-30000256	SMD CAPACITOR	470PF 50V J	
C710	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C711	VE-30012611	SMD CAPACITOR	120PF 50V J	
C712	VE-30012568	SMD CAPACITOR	270PF 50V J	
C713	VE-30012560	SMD CAPACITOR	100PF 50V J	
C714	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C719	VE-30012560	SMD CAPACITOR	100PF 50V J	
C750	VE-30000362	EL CAPACITOR	1UF 50V M.	
C751	VE-30000362	EL CAPACITOR	1UF 50V M.	
C752	VE-30000371	EL CAPACITOR	22UF 50V M	
C753	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C754	VE-30000352	EL CAPACITOR	100UF 16V M	
C755	VE-30000352	EL CAPACITOR	100UF 16V M	
C756	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C757	VE-30000371	EL CAPACITOR	22UF 50V M	
C758	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C759	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C760	VE-30000371	EL CAPACITOR	22UF 50V M	
C761	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C762	VE-30000362	EL CAPACITOR	1UF 50V M.	
C763	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C764	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C765	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C766	VE-30012569	SMD CAPACITOR	33PF 50V J	
C767	VE-30012569	SMD CAPACITOR	33PF 50V J	
C768	VE-30000371	EL CAPACITOR	22UF 50V M	
C769	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C770	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C771	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C772	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C773	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C774	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C775	VE-30012568	SMD CAPACITOR	270PF 50V J	
C777	VE-30000345	EL CAPACITOR	10UF 50V M	
C778	VE-30012580	SMD CAPACITOR	820PF 50V J	
C779	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C781	VE-30016654	SMD CAPACITOR	100NF 16V K R	
C782	VE-30000413	EL CAPACITOR	4.7UF 50V M	
R400	VE-30012641	SMD RESISTOR	1/16W 10K J	
R401	VE-30012641	SMD RESISTOR	1/16W 10K J	
R402	VE-30012510	SMD RESISTOR	1/16W 100R J	
R403	VE-30012510	SMD RESISTOR	1/16W 100R J	
R404	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R405	VE-30012510	SMD RESISTOR	1/16W 100R J	
R406	VE-30012510	SMD RESISTOR	1/16W 100R J	
R407	VE-30012657	SMD RESISTOR	1/16W 1K J	
R408	VE-30012657	SMD RESISTOR	1/16W 1K J	
R409	VE-30012657	SMD RESISTOR	1/16W 1K J	
R410	VE-30012657	SMD RESISTOR	1/16W 1K J	
R417	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R418	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R419	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R420	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R421	VE-30012510	SMD RESISTOR	1/16W 100R J	
R422	VE-30012510	SMD RESISTOR	1/16W 100R J	
R431	VE-30012657	SMD RESISTOR	1/16W 1K J	
R432	VE-30012657	SMD RESISTOR	1/16W 1K J	
R433	VE-30012657	SMD RESISTOR	1/16W 1K J	
R434	VE-30012657	SMD RESISTOR	1/16W 1K J	
R435	VE-30012657	SMD RESISTOR	1/16W 1K J	
R436	VE-30012657	SMD RESISTOR	1/16W 1K J	
R437	VE-30012657	SMD RESISTOR	1/16W 1K J	
R438	VE-30012657	SMD RESISTOR	1/16W 1K J	
R439	VE-30012657	SMD RESISTOR	1/16W 1K J	
R443	VE-30012657	SMD RESISTOR	1/16W 1K J	
R447	VE-30012657	SMD RESISTOR	1/16W 1K J	
R448	VE-30012669	SMD RESISTOR	1/16W 22K J	
R449	VE-30012509	SMD RESISTOR	1/16W 100K J	
R450	VE-30012657	SMD RESISTOR	1/16W 1K J	
R451	VE-30014022	SMD RESISTOR	1/16W 47R J	
R452	VE-30012669	SMD RESISTOR	1/16W 22K J	
R453	VE-30012509	SMD RESISTOR	1/16W 100K J	
R454	VE-30012657	SMD RESISTOR	1/16W 1K J	
R455	VE-30014022	SMD RESISTOR	1/16W 47R J	
R600	VE-30012713	SMD RESISTOR	1/16W 75R J	
R601	VE-30012713	SMD RESISTOR	1/16W 75R J	
R602	VE-30012713	SMD RESISTOR	1/16W 75R J	
R603	VE-30012713	SMD RESISTOR	1/16W 75R J	
R604	VE-30012713	SMD RESISTOR	1/16W 75R J	
R605	VE-30012713	SMD RESISTOR	1/16W 75R J	
R606	VE-30012713	SMD RESISTOR	1/16W 75R J	
R607	VE-30012689	SMD RESISTOR	1/16W 39K J	
R608	VE-30012684	SMD RESISTOR	1/16W 330R J	
R609	VE-30012679	SMD RESISTOR	1/16W 3.9K J	
R610	VE-30012677	SMD RESISTOR	1/16W 3.3K J	
R611	VE-30012650	SMD RESISTOR	1/16W 15K J	
R612	VE-30012650	SMD RESISTOR	1/16W 15K J	
R613	VE-30012657	SMD RESISTOR	1/16W 1K J	
R614	VE-30012657	SMD RESISTOR	1/16W 1K J	
R618	VE-30020622	SARRAY RESISTOR	1/16W 100R J	
R619	VE-30020622	SARRAY RESISTOR	1/16W 100R J	
R625	VE-30012713	SMD RESISTOR	1/16W 75R J	
R627	VE-30012510	SMD RESISTOR	1/16W 100R J	
R628	VE-30012510	SMD RESISTOR	1/16W 100R J	
R629	VE-30012668	SMD RESISTOR	1/16W 220R J	
R630	VE-30012649	SMD RESISTOR	1/16W 150R J	
R631	VE-30012673	SMD RESISTOR	1/16W 270R J	
R632	VE-30014128	SMD RESISTOR	1/16W 33R J	
R633	VE-30014078	SMD RESISTOR	1/16W 22R J	
R634	VE-30012662	SMD RESISTOR	1/16W 2.7K J	
R635	VE-30012649	SMD RESISTOR	1/16W 150R J	
R636	VE-30012673	SMD RESISTOR	1/16W 270R J	
R637	VE-30014128	SMD RESISTOR	1/16W 33R J	
R638	VE-30012649	SMD RESISTOR	1/16W 150R J	
R639	VE-30012673	SMD RESISTOR	1/16W 270R J	
R640	VE-30014128	SMD RESISTOR	1/16W 33R J	
R641	VE-30012649	SMD RESISTOR	1/16W 150R J	
R642	VE-30012713	SMD RESISTOR	1/16W 75R J	
R643	VE-30012669	SMD RESISTOR	1/16W 22K J	
R644	VE-30012707	SMD RESISTOR	1/16W 680R J	
R645	VE-30012510	SMD RESISTOR	1/16W 100R J	
R646	VE-30012510	SMD RESISTOR	1/16W 100R J	
R647	VE-30012713	SMD RESISTOR	1/16W 75R J	
R648	VE-30012713	SMD RESISTOR	1/16W 75R J	
R649	VE-30012713	SMD RESISTOR	1/16W 75R J	
R650	VE-30012713	SMD RESISTOR	1/16W 75R J	
R652	VE-30012713	SMD RESISTOR	1/16W 75R J	
R653	VE-30012510	SMD RESISTOR	1/16W 100R J	
R654	VE-30012668	SMD RESISTOR	1/16W 220R J	
R655	VE-30012657	SMD RESISTOR	1/16W 1K J	
R656	VE-30012657	SMD RESISTOR	1/16W 1K J	
R657	VE-30012713	SMD RESISTOR	1/16W 75R J	

⚠Ref No.	Part No.	Part Name	Description	Local
R658	VE-30012669	SMD RESISTOR	1/16W 22K J	
R659	VE-30012649	SMD RESISTOR	1/16W 150R J	
R660	VE-30012641	SMD RESISTOR	1/16W 10K J	
R661	VE-30012649	SMD RESISTOR	1/16W 150R J	
R662	VE-30012695	SMD RESISTOR	1/16W 470R J	
R663	VE-30012641	SMD RESISTOR	1/16W 10K J	
R664	VE-30012649	SMD RESISTOR	1/16W 150R J	
R665	VE-30012713	SMD RESISTOR	1/16W 75R J	
R666	VE-30012669	SMD RESISTOR	1/16W 22K J	
R667	VE-30012695	SMD RESISTOR	1/16W 470R J	
R668	VE-30012650	SMD RESISTOR	1/16W 15K J	
R670	VE-30012506	SMD RESISTOR	1/16W 1.5K J	
R671	VE-30012719	SMD RESISTOR	1/16W 910R J	
R673	VE-30012504	SMD RESISTOR	1/16W 1.2K J	
R674	VE-30012713	SMD RESISTOR	1/16W 75R J	
R675	VE-30012713	SMD RESISTOR	1/16W 75R J	
R677	VE-30012713	SMD RESISTOR	1/16W 75R J	
R678	VE-30012713	SMD RESISTOR	1/16W 75R J	
R679	VE-30012713	SMD RESISTOR	1/16W 75R J	
R680	VE-30012713	SMD RESISTOR	1/16W 75R J	
R682	VE-30012713	SMD RESISTOR	1/16W 75R J	
R683	VE-30012713	SMD RESISTOR	1/16W 75R J	
R699	VE-30012688	SMD RESISTOR	1/16W 390R J	
R700	VE-30012657	SMD RESISTOR	1/16W 1K J	
R703	VE-30012713	SMD RESISTOR	1/16W 75R J	
R704	VE-30012649	SMD RESISTOR	1/16W 150R J	
R705	VE-30012695	SMD RESISTOR	1/16W 470R J	
R706	VE-30012669	SMD RESISTOR	1/16W 22K J	
R707	VE-30012649	SMD RESISTOR	1/16W 150R J	
R708	VE-30012641	SMD RESISTOR	1/16W 10K J	
R750	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R751	VE-30012695	SMD RESISTOR	1/16W 470R J	
R752	VE-30012695	SMD RESISTOR	1/16W 470R J	
R753	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R754	VE-30013001	SMD RESISTOR	1/16W 1K F	
R755	VE-30012657	SMD RESISTOR	1/16W 1K J	
R756	VE-30012669	SMD RESISTOR	1/16W 22K J	
R757	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R758	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R759	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R760	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R761	VE-30012679	SMD RESISTOR	1/16W 3.9K J	
R762	VE-30012679	SMD RESISTOR	1/16W 3.9K J	
R763	VE-30012650	SMD RESISTOR	1/16W 15K J	
R764	VE-30012650	SMD RESISTOR	1/16W 15K J	
R765	VE-30012510	SMD RESISTOR	1/16W 100R J	
R766	VE-30012641	SMD RESISTOR	1/16W 10K J	
R767	VE-30012510	SMD RESISTOR	1/16W 100R J	
R768	VE-30012641	SMD RESISTOR	1/16W 10K J	
R773	VE-30012657	SMD RESISTOR	1/16W 1K J	
R774	VE-30012657	SMD RESISTOR	1/16W 1K J	
R775	VE-30012696	SMD RESISTOR	1/16W 47K J	
R776	VE-30012696	SMD RESISTOR	1/16W 47K J	
R777	VE-30012696	SMD RESISTOR	1/16W 47K J	
R778	VE-30012696	SMD RESISTOR	1/16W 47K J	
R779	VE-30012510	SMD RESISTOR	1/16W 100R J	
R780	VE-30012510	SMD RESISTOR	1/16W 100R J	
R781	VE-30012641	SMD RESISTOR	1/16W 10K J	
R782	VE-30012641	SMD RESISTOR	1/16W 10K J	
R783	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R784	VE-30012641	SMD RESISTOR	1/16W 10K J	
R785	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R786	VE-30012509	SMD RESISTOR	1/16W 100K J	
R789	VE-30012657	SMD RESISTOR	1/16W 1K J	
R790	VE-30012657	SMD RESISTOR	1/16W 1K J	
R791	VE-30012657	SMD RESISTOR	1/16W 1K J	
R792	VE-30012657	SMD RESISTOR	1/16W 1K J	
R793	VE-30012657	SMD RESISTOR	1/16W 1K J	
R794	VE-30014022	SMD RESISTOR	1/16W 47R J	
R795	VE-30012668	SMD RESISTOR	1/16W 220R J	
R796	VE-30014022	SMD RESISTOR	1/16W 47R J	
R797	VE-30012657	SMD RESISTOR	1/16W 1K J	
R798	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R801	VE-30012641	SMD RESISTOR	1/16W 10K J	
R806	VE-30012657	SMD RESISTOR	1/16W 1K J	
R807	VE-30018409	SARRAY RESISTOR	1/16W 330R J	
R808	VE-30018409	SARRAY RESISTOR	1/16W 330R J	
R809	VE-30018409	SARRAY RESISTOR	1/16W 330R J	
R810	VE-30018409	SARRAY RESISTOR	1/16W 330R J	
R811	VE-30018409	SARRAY RESISTOR	1/16W 330R J	
R812	VE-30018409	SARRAY RESISTOR	1/16W 330R J	
R813	VE-30018409	SARRAY RESISTOR	1/16W 330R J	
R814	VE-30012641	SMD RESISTOR	1/16W 10K J	
R815	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R816	VE-30012657	SMD RESISTOR	1/16W 1K J	
R817	VE-30012650	SMD RESISTOR	1/16W 15K J	
R818	VE-30012679	SMD RESISTOR	1/16W 3.9K J	
R819	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R820	VE-30012641	SMD RESISTOR	1/16W 10K J	
R822	VE-30012641	SMD RESISTOR	1/16W 10K J	
R823	VE-30012696	SMD RESISTOR	1/16W 47K J	
R824	VE-30012696	SMD RESISTOR	1/16W 47K J	
R825	VE-30012510	SMD RESISTOR	1/16W 100R J	
R826	VE-30012641	SMD RESISTOR	1/16W 10K J	
R827	VE-30012692	SMD RESISTOR	1/16W 4.7K J	
R828	VE-30012659	SMD RESISTOR	1/16W 2.2K J	
R829	VE-30012641	SMD RESISTOR	1/16W 10K J	
R830	VE-30012641	SMD RESISTOR	1/16W 10K J	
R831	VE-30012510	SMD RESISTOR	1/16W 100R J	
R832	VE-30012641	SMD RESISTOR	1/16W 10K J	
R833	VE-30012510	SMD RESISTOR	1/16W 100R J	
R834	VE-30012641	SMD RESISTOR	1/16W 10K J	
R835	VE-30012641	SMD RESISTOR	1/16W 10K J	
L402	VE-30017143	SMD COIL	22UH	
L403	VE-30017143	SMD COIL	22UH	
L404	VE-30017143	SMD COIL	22UH	
L405	VE-30017143	SMD COIL	22UH	
L407	VE-30017143	SMD COIL	22UH	
L408	VE-30017143	SMD COIL	22UH	
L412	VE-30017143	SMD COIL	22UH	
L413	VE-30017143	SMD COIL	22UH	
L414	VE-30017143	SMD COIL	22UH	
L415	VE-30017143	SMD COIL	22UH	
L416	VE-30017143	SMD COIL	22UH	
L417	VE-30017143	SMD COIL	22UH	
L425	VE-30018093	SMD COIL	3.3UH	
L426	VE-30018093	SMD COIL	3.3UH	
L427	VE-30018093	SMD COIL	3.3UH	
L600	VE-30001992	FIXED COIL	10UH	
L601	VE-30018093	SMD COIL	3.3UH	
L602	VE-30018093	SMD COIL	3.3UH	
L603	VE-30018093	SMD COIL	3.3UH	
L605	VE-30001992	FIXED COIL	11UH	
L606	VE-30001992	FIXED COIL	12UH	
L607	VE-30001992	FIXED COIL	13UH	
L608	VE-30001992	FIXED COIL	14UH	
L609	VE-30018093	SMD COIL	3.3UH	
L610	VE-30018093	SMD COIL	3.3UH	
L611	VE-30018093	SMD COIL	3.3UH	
L612	VE-30017542	SMD COIL	10UH	
L613	VE-30001992	FIXED COIL	15UH	
L614	VE-30001992	FIXED COIL	16UH	
L619	VE-30017542	SMD COIL	10UH	
L750	VE-30018093	SMD COIL	3.3UH	
L751	VE-30018093	SMD COIL	3.3UH	
L752	VE-30018093	SMD COIL	3.3UH	
L753	VE-30018093	SMD COIL	3.3UH	
L754	VE-30018093	SMD COIL	3.3UH	
L756	VE-30018093	SMD COIL	3.3UH	
L406	VE-30001971	FERRITE BEAD		
L411	VE-30001971	FERRITE BEAD		
L418	VE-30001971	FERRITE BEAD		
L618	VE-30001969	FERRITE BEAD		
X400	VE-30001756	XTAL	18.432MHz	
X600	VE-30008782	XTAL	5MHz	
X750	VE-30006662	XTAL	6MHz	
XTAL600	VE-30008778	XTAL	20.25MHz	

CRT SOCKET P.W. BOARD ASS'Y (VE-20171200)

⚠Ref No.	Part No.	Part Name	Description	Local
IC900	VE-30018768	IC		
Q900	VE-30001427	TRANSISTOR		
Q901	VE-30001455	TRANSISTOR		
Q902	VE-30017863	TRANSISTOR		
Q903	VE-30017862	TRANSISTOR		
Q906	VE-30001454	TRANSISTOR		
Q907	VE-30013531	TRANSISTOR		
Q908	VE-30003768	TRANSISTOR		
D901	VE-30006918	DIODE	0.25A/200V 1A	
D902	VE-30001318	DIODE	1A/800V 20A	
D903	VE-30006918	DIODE	0.25A/200V 1A	
D904	VE-30006918	DIODE	0.25A/200V 1A	
D905	VE-30001284	DIODE	0.15A/100V 0.5A	
D906	VE-30001284	DIODE	0.15A/100V 0.5A	

⚠Ref No.	Part No.	Part Name	Description	Local
D907	VE-30001284	DIODE	0.15A/100V 0.5A	
L902	VE-30001284	DIODE	0.15A/100V 0.5A	
C900	VE-30000126	MKP CAPACITOR	1NF 630Vdc J	
C902	VE-30000415	EL CAPACITOR	4.7UF 250V M	
C903	VE-30006841	MKP CAPACITOR	1.2NF 1600Vdc J	
C904	VE-30000330	CER CAPACITOR	4.7NF 50V K B	
C905	VE-30000350	EL CAPACITOR	10UF 250V M.	
C906	VE-30000075	MKT CAPACITOR	100NF 250V K (DC)	
C908	VE-30000074	MKT CAPACITOR	100NF 63V J	
C909	VE-30000071	MKT CAPACITOR	10NF 63V J	
C910	VE-30000090	MKT CAPACITOR	22NF 100V J	
C911	VE-30000090	MKT CAPACITOR	22NF 100V J	
C912	VE-30000075	MKT CAPACITOR	100NF 250V K (DC)	
C913	VE-30000198	CER CAPACITOR	120PF 500V J SL	
C914	VE-30000388	EL CAPACITOR	33UF 160V M	
C915	VE-30000075	MKT CAPACITOR	100NF 250V K (DC)	
C917	VE-30000295	CER CAPACITOR	100NF 50V Z F	
C918	VE-30000352	EL CAPACITOR	100UF 16V M	
C919	VE-30000205	CER CAPACITOR	150PF 50V J SL	
C925	VE-30000191	CER CAPACITOR	100PF 50V J SL	
C931	VE-30000075	MKT CAPACITOR	100NF 250V K (DC)	
C935	VE-30000197	CER CAPACITOR	120PF 50V J SL	
⚠J136	VE-30001248	FUSE RESISTOR	1/4W 4.7R J	
R900	VE-30000788	CF RESISTOR	1/4W 6.8M J	
R901	VE-30000459	CF RESISTOR	1/4W 100R J.	
R902	VE-30000459	CF RESISTOR	1/4W 100R J.	
R903	VE-30000459	CF RESISTOR	1/4W 100R J.	
R904	VE-30000535	CF RESISTOR	1/2W 150K J	
R905	VE-30000477	CF RESISTOR	1/4W 100K J.	
R906	VE-30000477	CF RESISTOR	1/4W 100K J.	
R907	VE-30020603	CC RESISTOR	1W 1K K	
R908	VE-30020603	CC RESISTOR	1W 1K K	
R909	VE-30000477	CF RESISTOR	1/4W 100K J.	
R910	VE-30020603	CC RESISTOR	1W 1K K	
R911	VE-30000466	CF RESISTOR	1/4W 1K J.	
R912	VE-30000459	CF RESISTOR	1/4W 100R J.	
R913	VE-30000492	CF RESISTOR	1/4W 120R J.	
R914	VE-30000612	CF RESISTOR	1/4W 2.4K J	
R915	VE-30000973	MF RESISTOR	1/4W 3.9K F	
R916	VE-30000531	CF RESISTOR	1/4W 15K J.	
R917	VE-30000466	CF RESISTOR	1/4W 1K J.	
R918	VE-30000477	CF RESISTOR	1/4W 100K J.	
R919	VE-30000580	CF RESISTOR	1/4W 22R J.	
R920	VE-30000459	CF RESISTOR	1/4W 100R J.	
R921	VE-30000459	CF RESISTOR	1/4W 100R J.	
R922	VE-30000584	CF RESISTOR	1/4W 220R G	
R923	VE-30000452	CF RESISTOR	1/4W 10R J.	
R924	VE-30000466	CF RESISTOR	1/4W 1K J.	
R925	VE-30000466	CF RESISTOR	1/4W 1K J.	
R926	VE-30000779	CF RESISTOR	1/4W 68K J	
R927	VE-30000779	CF RESISTOR	1/4W 68K J	
R928	VE-30000459	CF RESISTOR	1/4W 100R J.	
R929	VE-30000452	CF RESISTOR	1/4W 10R J.	
R930	VE-30000707	CF RESISTOR	1/4W 47R G	
R931	VE-30001194	MO RESISTOR	2W 680R J	
⚠R932	VE-30001245	FUSE RESISTOR	1/4W 0.47R J	
R933	VE-30021483	CC RESISTOR	1W 2.2K K	
R934	VE-30000459	CF RESISTOR	1/4W 100R J.	
R938	VE-30000769	CF RESISTOR	1/2W 680R J.	
R942	VE-30000770	CF RESISTOR	1/4W 680R J	
L901	VE-30001994	FIXED COIL	22UH	
L905	VE-30001990	FIXED COIL	6.8UH	
⚠PL900A	VE-30001855	CRT SOCKET		
SG901	VE-30000428	SPARK GAP	300V	
SG902	VE-30000428	SPARK GAP		
SG903	VE-30000428	SPARK GAP		
SG904	VE-30000428	SPARK GAP		
SG905	VE-30021532	SPARK GAP	1500V	

AV &HEADPHONE P.W. BOARD ASS'Y (VE-20169086)

⚠Ref No.	Part No.	Part Name	Description	Local
D100	VE-30001371	ZENER DIODE		
D101	VE-30001371	ZENER DIODE		
D102	VE-30001371	ZENER DIODE		
D103	VE-30001371	ZENER DIODE		
D104	VE-30001371	ZENER DIODE		
C101	VE-30000190	CER CAPACITOR	100PF 50V J CH	
C102	VE-30000190	CER CAPACITOR	100PF 50V J CH	
C103	VE-30000190	CER CAPACITOR	100PF 50V J CH	
C104	VE-30000433	CER CAPACITOR	1NF 1KV M B	
C105	VE-30000433	CER CAPACITOR	1NF 1KV M B	
C106	VE-30000330	CER CAPACITOR	4.7NF 50V K B	
C107	VE-30000330	CER CAPACITOR	4.7NF 50V K B	
R100	VE-30000594	CF RESISTOR	1/4W	
R101	VE-30000712	CF RESISTOR	1/4W	
R102	VE-30000594	CF RESISTOR	1/4W	
R103	VE-30000712	CF RESISTOR	1/4W	
R106	VE-30000518	CF RESISTOR	1/2W	
R107	VE-30000518	CF RESISTOR	1/2W	
R108	VE-30000551	CF RESISTOR	1/4W	
R109	VE-30000551	CF RESISTOR	1/4W	
L100	VE-30001979	FIXED COIL	1UH	
JK101	VE-30001893	RCA JACK	YELLOW	
JK102	VE-30001891	RCA JACK	WHITE	
JK103	VE-30001892	RCA JACK	RED	
JK104	VE-30001900	HEADPHONE JACK		

POWER SWITCH P.W. BOARD ASS'Y (VE-20160993)

⚠Ref No.	Part No.	Part Name	Description	Local
⚠F801	VE-30001731	FUSE	2.5A	
⚠SW1	VE-30022450	SWITCH (ON/OFF)		

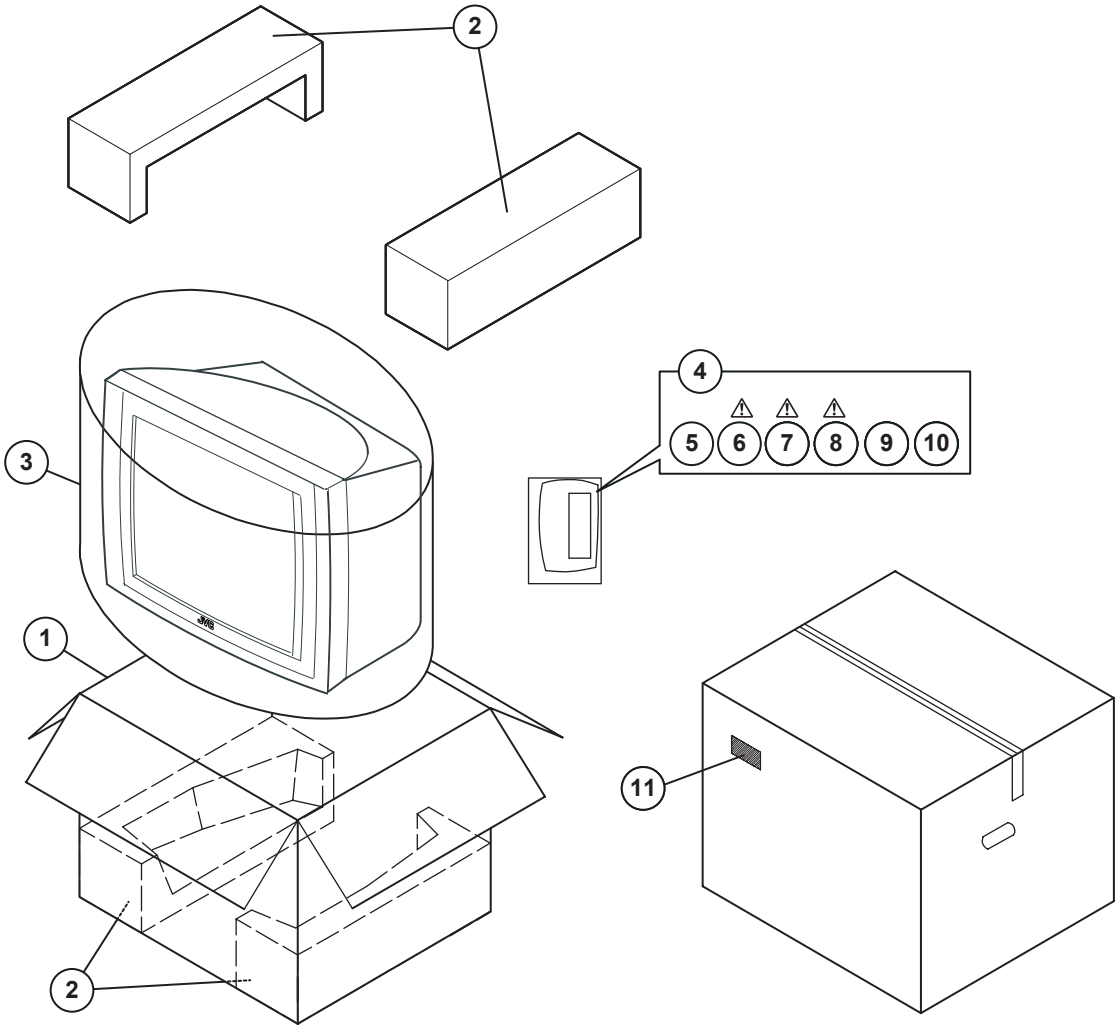
SIDE CONTROL P.W. BOARD ASS'Y (VE-20160920)

⚠Ref No.	Part No.	Part Name	Description	Local
R1	VE-30000689	CF RESISTOR	1/4W 3.9K J	
R2	VE-30000526	CF RESISTOR	1/4W 1.5K J	
R3	VE-30000770	CF RESISTOR	1/4W 680R J	
R4	VE-30000712	CF RESISTOR	1/4W 470R J	
R5	VE-30000622	CF RESISTOR	1/4W 270R J	
SW1	VE-30002181	TACT SWITCH		
SW2	VE-30002181	TACT SWITCH		
SW3	VE-30002181	TACT SWITCH		
SW4	VE-30002181	TACT SWITCH		
SW5	VE-30002181	TACT SWITCH		

LED P.W. BOARD ASS'Y (VE-20167318)

⚠Ref No.	Part No.	Part Name	Description	Local
IC1	VE-30001670	PREAMPLIFIER		
D2	VE-20119034	LED HOLDER		
D2	VE-30001279	LED (RED / GREEN)		
C1	VE-30000371	EL CAPACITOR	22UF 50V M	

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	VE-50051931	CARTON BOX		AV-29QH4BU
	1	VE-50051954	CARTON BOX		AV-29QH4SU
	2	VE-20155108	CUSHION ASS'Y	4pcs in 1set	
	3	VE-50042311	POLY BAG(1300*1100)		
	4	VE-70000587	POLY BAG		
	5	VE-30021286	REMOTE CONTROL UNIT	(RM-C1512B)	AV-29QH4BU
	5	VE-30021287	REMOTE CONTROL UNIT	(RM-C1512S)	AV-29QH4SU
⚠	6	VE-50051928	INST BOOK	(ENG/GER/FRE/ITA/SPA/DUT/POR)	
⚠	7	VE-50051929	INST BOOK	(SWE/NOR/DAN/FIN)	
⚠	8	VE-50051930	INST BOOK	(CZE/POL/HUN/BUL/ROM)	
	9	----------	WARRANTY CARD	BT-54013-2TK	
	10	----------	BATTERY	AA/R06 (x2)	
	11	VE-20162887	LABEL		AV-29QH4BU
	11	VE-20162892	LABEL		AV-29QH4SU